

# NHC Assessment Manual – NHI Act

Version as at 13 May 2025

NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024



NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 2 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Contents

| 1. |      | Introduction   | 12       |
|----|------|--|----------|
|    | a.   | Terminology  | 12       |
|    | b.   | Purpose of Manual  | 12       |
|    | c.   | Who is this Manual for?  | 12       |
|    | d.   | How should you use this Manual?  | 12       |
|    | e.   | Updates to this Manual   | 13       |
|    | f.   | NHI Act interpretation   | 13       |
|    | g.   | Relationship with NHC Claims Manual – Residential Buildings – NHI Act, NHO | C Claims |
|    |      | Manual – Residential Land – NHI Act and the NHC Insurers Manual            | 14       |
|    | h.   | Expectations of those involved in the claims assessment process            | 14       |
|    | i.   | Overview   | 14       |
|    | ii.  | Capabilities   | 15       |
|    | iii. | Soft skills and communication style  | 15       |
|    | iv.  |  | 15       |
|    | ۷.   | Health and safety  | 16       |
|    | i.   | Overview   | 19       |
|    | j.   | Terms used in this Manual  | 21       |
| 2. |      | Claimed damage assessment purpose and legislative components               | 24       |
|    | a.   | Overview   | 24       |
|    | b.   | What is the purpose of the claims assessment process?                      | 26       |
|    | i.   | Has the property incurred natural hazard damage?                           | 26       |
|    | ii.  | What is the amount of the natural hazard damage covered?                   | 26       |
|    | c.   | Is there natural hazard damage?  | 27       |
|    | i.   | What is a 'natural hazard'?  | 27       |
|    | ii.  | What is natural hazard damage?   | 30       |
|    | iii. | Is there physical loss or damage?  | 31       |
|    | iv.  | Is the physical loss or damage 'a direct result' of a natural hazard?      | 32       |
|    | ۷.   | What is 'mitigation damage'?   | 36       |
|    | vi.  | What is 'imminent damage'?   | 37       |
|    | d.   | What is the basis of cover?  | 38       |
|    | i.   | Basis of cover for a 'residential building'                                | 38       |
|    | ii.  | Basis of cover for 'residential land'                                      | 43       |
|    | e.   | Consequential loss   | 47       |
|    | f.   | Pre-existing conditions  | 48       |
|    | g.   | Grounds for declining an NHCover claim                                     | 48       |
| 3. |      | Identifying natural hazard damage to a residential building                | 50       |

ANDO

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| Page <b>3</b> | of <b>427</b> | V       NHC Assessment Manual - NHI Act       Version as at 13/5/2025   | Natur<br>Comr<br>Toka Tū | ral Hazards<br>mission<br>i Ake |
|---------------|---------------|---|--------------------------|---------------------------------|
|               | a.            | Overview  | 50                       |                                 |
|               | b.            | Is there an insured 'residential building'?   | 50                       |                                 |
|               | c.            | Distinguishing natural hazard damage from pre-existing conditions   | 51                       |                                 |
|               | d.            | Indicators of the extent of damage  | 51                       |                                 |
|               | e.            | Factors that may determine the nature of natural hazard damage to a resid   |                          |                                 |
|               | <u>,</u>      | building  | 52<br>52                 |                                 |
|               | f.            | Features of natural hazard damage to a residential building   | 52                       |                                 |
|               | i.            | Common natural hazard damage to building elements   | 52                       |                                 |
|               | ii.           | Common natural hazard damage observations to specific exterior cladding t   |                          | 56                              |
|               | iii.          |   |                          |                                 |
|               | iv.<br>v.     | Common natural hazard damage observations to foundations<br>Common natural hazard damage observations to specific chimney types | 63<br>66                 |                                 |
|               | v.<br>vi.     | -   |                          | 68                              |
| 4.            |               | Identifying natural hazard damage to residential land   | 70                       |                                 |
|               | a.            | Overview  | 70                       |                                 |
|               | b.            | Is there insured 'residential land'?  | 70                       |                                 |
|               | i.            | Residential land may include common land, joint land and shared land  | 72                       |                                 |
|               | с.            | Distinguishing natural hazard damage from pre-existing conditions   | 73                       |                                 |
|               | d.            | What are the steps in the assessment?   | 73                       |                                 |
|               | i.            | Assessing the extent of the insured person's land   | 74                       |                                 |
|               | ii.           | Assessing the type and extent of the natural hazard damage to the land area   | and land                 | b                               |
|               |               | structures on the insured person's land   | 74                       |                                 |
|               | iii.          | 6   | 78                       |                                 |
|               | iv.           | Assessing the area of land that is lost or damaged  | 79                       |                                 |
|               | e.            | Indicators of the extent of damage  | 80                       |                                 |
|               | f.            | Features of natural hazard damage to residential land   | 81                       |                                 |
|               | i.            | Natural hazard land damage  | 81                       |                                 |
|               | ii.           | Natural hazard damage to land structures (retaining walls, bridges and culve  | erts)                    | 88                              |
| 5.            |               | Imminent damage   | 91                       |                                 |
|               | a.            | Overview  | 91                       |                                 |
|               | b.            | What the NHI Act covers   | 92                       |                                 |
|               | с.            | Limitations   | 93                       |                                 |
|               | d.            | Other considerations  | 93<br>94                 |                                 |
|               | e.            | How to identify loss  |                          |                                 |
|               | i.            | Economic loss   | 94                       |                                 |
|               | ii.           | Consequential loss  | 94                       |                                 |
|               | f.            | Calculating imminent damage settlement  | 94                       |                                 |
|               | i.            | Complex scenarios   | 95                       |                                 |









| Page <b>4</b> | of <b>427</b> | NHC Assessment Manual - NHI ActVersion as at 13/5/2025                    | Natural Hazards<br>Commission<br>Toka Tū Ake |
|---------------|---------------|---|--|
| 6.            |               | Pre-existing conditions   | 97   |
|               | a.            | What are pre-existing conditions?   | 97   |
|               | b.            | Distinguishing pre-existing conditions from natural hazard damage         | 97   |
|               | c.            | Exacerbation of pre-existing damage                                       | 98   |
|               | d.            | The amount of the natural hazard damage covered                           | 98   |
|               | e.            | When pre-existing conditions are included in the repair of natural hazard | damage 99                                    |
|               | i.            | Pre-existing legal requirements   | 99   |
|               | f.            | Common types of pre-existing conditions in a residential building         | 100  |
|               | i.            | Overview  | 100  |
|               | ii.           | Damage from an earlier natural hazard                                     | 100  |
|               | iii.          | Design and/or construction-related matters                                | 101  |
|               | iv.           | Damage caused by an event not covered by the NHI Act                      | 102  |
|               | ٧.            | Damage due to 'age, wear and tear'  | 103  |
|               | vi.           | Existing land conditions  | 103  |
|               | vii           | . Other considerations  | 103  |
|               | g.            | Common types of pre-existing conditions in relation to residential land   | 103  |
|               | i.            | Damage from an earlier natural hazard                                     | 104  |
|               | ii.           | Design and/or construction-related matters                                | 104  |
|               | iii.          | Damage excluded under the NHI Act   | 105  |
|               | iv.           | Damage due to deferred maintenance  | 105  |
|               | ۷.            | Existing land conditions  | 106  |
|               | vi.           | Other considerations  | 106  |
| 7.            |               | Engaging experts  | 107  |
|               | a.            | Overview  | 107  |
|               | b.            | When may an expert need to be engaged?                                    | 107  |
|               | i.            | Building claims   | 107  |
|               | ii.           | Land claims   | 109  |
|               | iii.          | Other considerations  | 109  |
|               | c.            | Who may be engaged as an expert?  | 110  |
|               | d.            | How to engage an expert   | 110  |
|               | e.            | Types of experts  | 111  |
|               | i.            | Geotechnical engineer   | 111  |
|               | ii.           | Registered valuer   | 113  |
|               | iii.          | Estimator and quantity surveyor   | 114  |
|               | iv.           | Survey specialist (for a building)  | 115  |
|               | ٧.            | Survey specialist (for land)  | 116  |
|               | vi.           | Structural engineer   | 117  |
|               | vii           | . Other appropriate experts   | 118  |









| e 5 | of <b>427</b> | NHC Assessment Manual - NHI ActVersion as at 13/5/2025                    | Natural Hazard<br>Commission<br>Toka Tū Ake |
|-----|---------------|---|---|
|     | f.            | Reviewing expert reports  | 118   |
| 8.  |               | Assessing damage across multiple properties                               | 119   |
|     | a.            | Overview  | 119   |
|     | b.            | Principles of assessing multiple property claims                          | 119   |
|     | с.            | Process for assessing damage across multiple properties                   | 120   |
|     | i.            | Identify each residential building  | 121   |
|     | ii.           | Determine whether there is a multi-unit building (MUB) and if so, categ   | orise it 123                                |
|     | iii.          | Identify the residential land associated with each residential building ( | land claim only)                            |
|     |               |   | 131   |
|     | iv.           | Identify any natural hazard damage  | 137   |
|     | ν.            | Document and allocate the natural hazard damage to the correct resid      | ential building                             |
|     |               |   | 139   |
|     | vi.           | Determine a remediation strategy  | 144   |
|     | vii           | . Create a scope of works for the conceptual remediation strategy         | 144   |
|     | vii           | i. Determine the appropriate valuation (land claim only)                  | 146   |
|     | ix.           |   | 146   |
|     | х.            | Apply cover proportionately to joint property and joint land              | 147   |
|     | xi.           |   | 148   |
|     | xii           |   |   |
|     |               | land, or joint property or land   | 149   |
|     | xii           | i. Create a settlement recommendation                                     | 149   |
|     | d.            | Examples of applying the 50% test   | 150   |
|     | i.            | Mixed residential and non-residential properties (MUB3)                   | 150   |
|     | ii.           | Long-term accommodation for the elderly (MUB4)                            | 152   |
| 9.  |               | Unsafe properties   | 155   |
|     | a.            | Overview  | 155   |
|     | b.            | Unsafe building notices   | 155   |
|     | i.            | Who can issue an unsafe building notice and when?                         | 156   |
|     | ii.           | When are unsafe building notices most commonly issued?                    | 156   |
|     | iii.          | What is the purpose of an unsafe building notice?                         | 156   |
|     | c.            | Properties that are not safe to assess                                    | 157   |
|     | d.            | Properties that are unsafe to access or occupy                            | 157   |
|     | e.            | Dangerous, affected and/or insanitary buildings                           | 157   |
|     | i.            | Dangerous buildings (section 121)   | 158   |
|     | ii.           | Affected buildings (section 121A)   | 158   |
|     | iii.          | Insanitary buildings (section 123)  | 158   |
|     | f.            | Earthquake-prone buildings  | 159   |
|     | g.            | Buildings in a designated area  | 159   |
|     | h.            | Unsafe properties in practice   | 159   |









| Page <b>6</b> of | 427  | NHC Assessment Manual – NHI Act Version as at 13/5/2025               | Natural Hazards<br>Commission<br>Toka Tũ Ake |
|------------------|------|---|--|
|                  | i.   | What if you identify that a property is unsafe to assess?             | 160  |
|                  | ii.  | What if you believe a property may be unsafe to access or occupy?     | 160  |
|                  | iii. | What if you identify a building that may be dangerous, affected and/c | or insanitary?                               |
|                  |      |   | 160  |
|                  | iv.  | Disclosing information  | 161  |
| i.               |      | When can you assess an unsafe property?                               | 162  |
|                  | i.   | When can you assess a property with an unsafe building notice?        | 163  |
| j.               |      | When can an unsafe building notice be removed?                        | 163  |
| k.               | •    | Unsafe property responsibilities                                      | 164  |
| 10.              |      | Planning for a site assessment  | 165  |
| a.               |      | Overview  | 165  |
| b.               | •    | Assessment preparation  | 166  |
|                  | i.   | Review claim file   | 166  |
|                  | ii.  | Research the property   | 166  |
|                  | iii. | Check the priority of the assessment                                  | 167  |
|                  | iv.  | Review health and safety information                                  | 167  |
|                  | ٧.   | Establish whether the claim is an 'extra care claim'                  | 168  |
|                  | vi.  | Review the loss details   | 169  |
|                  | vii. | 5   |  |
|                  | viii | •   | 169  |
|                  | ix.  | Review event information  | 170  |
| c.               |      | Customer/assessor first contact                                       | 172  |
|                  | i.   | Review key information (list of information you should have before ca | alling) 172                                  |
|                  | ii.  | Make the call   | 172  |
| d.               | •    | Site visit preparation  | 174  |
|                  | i.   | Consider whether a second assessor or specialist is required          | 174  |
|                  | ii.  | Gather equipment  | 174  |
|                  | iii. | Consider health and safety  | 175  |
|                  | iv.  | Consider urgent works   | 175  |
| 11.              |      | Carrying out a site assessment  | 177  |
| a.               |      | Arrive at site  | 177  |
| b.               | •    | Discuss the claim with the customer and complete the relevant form    |  |
|                  |      | Complete the site concerns with                                       | 177  |
| C.               |      | Complete the site assessment  | 178  |
| d.               |      | Record damage   | 181  |
|                  | i.   | Photographs and videos  | 181  |
| e.               | ,    | Explain findings to customer  | 183  |









| Page <b>7</b> of <b>42</b> 7 | V   NHC Assessment Manual – NHI Act Vers            | ion as at <b>13/5/2025</b> Natural Hazards<br>Toka Tù Ake |
|------------------------------|---|---|
| i.                           | Definitions of assessment outcomes                  | 184   |
| ii.                          | Recommending that damage be accepted (in full or    | in part) 184  |
| iii.                         | Recommending that damage not be accepted            | 185   |
| iv.                          | Recommending that the claim be found invalid        | 185   |
| ۷.                           | Quantifying residential building damage             | 186   |
| vi.                          | Quantifying residential land damage                 | 186   |
| f.                           | Conclude the assessment visit                       | 187   |
| 12.                          | Post-site assessment actions                        | 188   |
| a.                           | Update the claim details                            | 188   |
| b.                           | Prepare the assessment report                       | 188   |
| с.                           | Determine the assessment outcome                    | 189   |
| d.                           | Review expert reports                               | 189   |
| i.                           | Geotechnical report                                 | 189   |
| ii.                          | Structural engineering report                       | 190   |
| iii.                         | Valuation report                                    | 191   |
| iv.                          | Survey specialist's report (for building)           | 192   |
| ٧.                           | Survey specialist's report (for land)               | 192   |
| vi.                          | Other reports                                       | 192   |
| e.                           | Prepare scope of works                              | 193   |
| f.                           | Calculate the undepreciated value of damaged land   | structures 193  |
| g.                           | Prepare a settlement recommendation                 | 195   |
| h.                           | Upload documents for the customer's claims manag    | ger 195   |
| 13.                          | Assessment documentation standards                  | 196   |
| a.                           | Overview  | 196   |
| b.                           | Assessment documentation requirements               | 196   |
| с.                           | Assessment documentation purpose and outputs        | 197   |
| d.                           | Assessment information capture                      | 198   |
| i.                           | General documentation standards                     | 199   |
| ii.                          | Assessment planning documentation standards         | 199   |
| iii.                         | Site assessment documentation standards             | 200   |
| iv.                          | Post-site visit documentation requirements          | 203   |
| Append                       | ices  | 204   |
| Append                       | ix 1. Building components and r                     | epair considerations 204                                  |
| a.                           | Overview  | 204   |
| b.                           | Key considerations for remediation                  | 204   |
| c.                           | Works that do not require consent (exempt building  | ; works) 205  |
| d.                           | Works that require consent (restricted building wor | k or work that is not restricted)                         |
|                              |   | 205   |
| i.                           | Definition of restricted building work              | 206   |











| NHI Act – For claims made in relation to initial dama | go from natural hazards occurrir | $\sigma$ on or after 1 July 202/ |
|---|----------------------------------|----------------------------------|
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| Page <b>8</b> of <b>427</b> | V   NHC Assessment Manual – NHI Act Version a   | Is at 13/5/2025 Natural Hazard<br>Toka Tü Ake | ls |
|-----------------------------|---|---|----|
| e.                          | Examples of restricted building work  | 207   |    |
| i.<br>ii.<br>iii.           | Work to a dwelling's primary structure<br>Work to a dwelling's weathertightness<br>Fire safety design | 207<br>207<br>208                             |    |
| f.                          | Foundations   | 209   |    |
| i.<br>ii.                   | Common foundation remediation considerations<br>Foundation design considerations                      | 209<br>212                                    |    |
| g.                          | Roof  | 213   |    |
| i.<br>ii.                   | Common roof remediation considerations<br>Roof design considerations                                  | 213<br>214                                    |    |
| h.                          | Chimneys  | 214   |    |
| i.<br>ii.                   | Common chimney remediation strategies<br>Chimney design considerations                                | 214<br>217                                    |    |
| i.                          | Superstructure (walls)  | 217   |    |
| i.<br>ii.                   | Common superstructure remediation strategies<br>Superstructure design considerations                  | 217<br>220                                    |    |
| j.                          | Exterior cladding   | 221   |    |
| i.<br>ii.                   | Common exterior cladding remediation strategies<br>Exterior cladding design considerations            | 221<br>223                                    |    |
| k.                          | Interior linings  | 224   |    |
| i.<br>ii.                   | Common interior lining remediation strategies<br>Interior lining design considerations                | 224<br>225                                    |    |
| ι.                          | Joinery   | 226   |    |
| i.<br>ii.                   | Common joinery remediation strategies<br>Joinery design considerations                                | 226<br>228                                    |    |
| m.                          | Floors  | 228   |    |
| i.<br>ii.                   | Common floor remediation strategies<br>Floor design considerations                                    | 228<br>230                                    |    |
| n.                          | Services  | 231   |    |
| i.<br>ii.                   | Common remediation strategies to services<br>Design considerations for services                       | 231<br>231                                    |    |
| Appendi                     | ix 2. Land components and repair c  | onsiderations 233                             |    |
| a.<br>b.<br>c.              | Overview<br>Key considerations for remediation<br>Retaining walls                                     | 233<br>233<br>234                             |    |
| L.                          | iceraning waits   | 23 <b>4</b>                                   |    |









| Page <b>9</b> of <b>427</b> | NHC Assessment Manual - NHI ActVersion as at 13/5/2025                    | Natural Hazards<br>Commission<br>Toka Tũ Ake |
|-----------------------------|---|--|
| i.                          | Definition of 'face area'   | 234  |
| ii.                         | Common retaining wall remediation strategies                              | 235  |
| iii.                        | Retaining wall design considerations                                      | 249  |
| d.                          | Bridges and culverts  | 267  |
| i.                          | Common bridge and culvert remediation strategies                          | 267  |
| ii.                         | Bridge and culvert design considerations                                  | 269  |
| е.                          | Inundated land (falling, sliding, flowing or ejection)                    | 271  |
| i.                          | Common inundation remediation strategies                                  | 271  |
| ii.                         | Design considerations for removing inundation                             | 273  |
| f.                          | Evacuated land (including scouring)                                       | 274  |
| i.                          | Common evacuated land remediation strategies                              | 274  |
| ii.                         | Evacuated land design considerations                                      | 275  |
| g.                          | Cracking (lateral spreading and oscillation movement)                     | 277  |
| i.                          | Common cracking remediation strategies and design considerations          | 277  |
| h.                          | Undulating land   | 278  |
| i.                          | Common undulating land remediation strategies and design considerations   | 278  |
| i.                          | Localised ponding   | 278  |
| i.                          | Common localised ponding remediation strategies and design consideration  | s 278  |
| ј.                          | Localised settlement  | 279  |
| i.                          | Common localised settlement remediation strategies and design considerati | ons<br>279                                   |
| k.                          | Contaminated land   | 279  |
| i.                          | Key considerations for remediation  | 279  |
| Appendi                     | x 3. Remediation strategy, standards and costing                          | 281  |
| а.                          | Overview  | 281  |
| b.                          | Reinstatement standards under the NHI Act                                 | 282  |
| i.                          | Building repair considerations  | 282  |
| ii.                         | Land repair considerations  | 282  |
| с.                          | Regulations and compliance  | 284  |
| d.                          | Which costs are involved?   | 285  |
| i.<br>                      | Substantive works   | 286  |
| ii.<br>iii.                 | Preliminary and general costs (P and G)                                   | 287<br>287                                   |
| iv.                         | Margin<br>Goods and services tax (GST)                                    | 287  |
| v.                          | Enabling works  | 287  |
|                             |   |  |



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# NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

| Page <b>10</b> of <b>42</b> | 7   NHC Assessment Manual – NHI Act Version as at            | 13/5/2025 Natural Hazards<br>Commission<br>Toka Tù Ake |
|-----------------------------|--|--|
| vi.                         | Professional and compliance fees                             | 288  |
| vii                         | . Additional health and safety costs                         | 288  |
| vii                         | i. Asbestos testing  | 289  |
| ix.                         | Land contamination testing                                   | 289  |
| b.                          | Reviewing quotes and invoices                                | 289  |
| Appendi                     | x 4. Documentation examples                                  | 291  |
| a.                          | Overview   | 291  |
| b.                          | Building assessment report                                   | 292  |
| i.                          | Building assessment report, Unit 1                           | 293  |
| ii.                         | Building sketch (floor plan), Unit 1                         | 297  |
| iii.                        | Statement of claim checklist – damage report, Unit 1         | 298  |
| iv.                         | Scope of works, Unit 1                                       | 299  |
| ۷.                          | Building assessment report – Unit 2                          | 301  |
| vi.                         | Building sketch (floor plan), Unit 2                         | 307  |
| vii                         | . Statement of claim checklist – damage report, Unit 2       | 308  |
| vii                         | i. Scope of works, Unit 2                                    | 309  |
| c.                          | Land assessment report                                       | 311  |
| d.                          | Critical risk assessment                                     | 314  |
| е.                          | Land sketch  | 317  |
| f.                          | Instructions for the geotechnical engineer                   | 318  |
| g.                          | Geotechnical engineering report                              | 319  |
| h.                          | Valuer instruction   | 331  |
| i.                          | Valuation report   | 332  |
| ј.                          | Notification of a potentially dangerous building             | 335  |
| i.                          | Site assessment documentation standards                      | 339  |
| k.                          | Structural engineer letter of engagement                     | 341  |
| ι.                          | Structural engineering report                                | 353  |
| m.                          | Structural engineering report – floor plan and repair diagra | ams 363  |
| Appendi                     | x 5. Case studies  | 365  |
| a.                          | Introduction   | 365  |
| b.                          | Building   | 366  |
| i.                          | No natural hazard damage to the building                     | 366  |
| ii.                         | Minor building damage (cosmetic damage)                      | 368  |
| iii.                        | Moderate building damage (structural damage)                 | 370  |
| iv.                         | Severe building damage (structural damage)                   | 373  |
| ۷.                          | Total loss of building                                       | 377  |
| с.                          | Land   | 380  |
| i.                          | No natural hazard damage to the land                         | 380  |

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#### NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

| Page <b>11</b> of <b>427</b> | NHC Assessment Manual – NHI Act         | Version as at <b>13/5/2025</b> | Natural Hazards<br>Commission<br>Toka Tũ Ake |
|------------------------------|---|--------------------------------|--|
| ii.                          | Minor land damage                       |                                | 383  |
| iii.                         | Moderate land damage                    |                                | 386  |
| iv.                          | Severe land damage                      |                                | 393  |
| ۷.                           | Unrepairable land damage (cliff collaps | e)                             | 402  |
| d. Bı                        | uilding and land combined               |                                | 410  |
| i.                           | Land damage under (and affecting) the   | dwelling                       | 410  |
| ii.                          | Land damage with imminent damage to     | o the dwelling                 | 419  |
|                              |   |                                |  |













Page 12 of 427 | NHC Assessment Manual – NHI Act



# **1.** Introduction

# a. Terminology

Throughout this document, when we refer to 'we/our/us', we mean the Natural Hazards Commission Toka Tū Ake (NHC). When we refer to 'you/your', we mean any of the people described in the 'Who is this Manual for?' section below unless we have specified otherwise.

# b. Purpose of Manual

This Manual sets out how to apply the <u>Natural Hazards Insurance Act 2023 (NHI Act)</u> and <u>Natural Hazards Insurance Regulations 2024 (NHI Regulations)</u> when assessing residential building and residential land claims. It also provides guidance on assessing these claims in a comprehensive, timely, effective and consistent manner to:

- determine the customer's entitlement in accordance with the NHI Act; and
- deliver a great customer experience.

# c. Who is this Manual for?

This Manual is for NHC and everyone authorised to perform claims management activities on our behalf:

- our staff and contractors
- private insurers (acting as our agent under the NHI Act Natural Disaster Response Agreement (NHI Act NDRA), as amended from time to time) and their staff and contractors
- third-party providers (authorised to act on our behalf, either appointed by us or an insurer as permitted under the NHI Act NDRA) and their staff and contractors.

# d. How should you use this Manual?

When dealing with Natural Hazards Cover (NHCover) claims, you must act in accordance with the <u>NHI Act</u>, all other applicable laws, our delegations, our instructions in relation to the application of the NHI Act, this Manual and all other applicable parts of the NHC Insurers Manual.

UNCLASSIFIED

Section 1 – Introduction

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## Page 13 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



Where the NHI Act does not cover the damage, you should consider whether a private insurance policy covers it. Where both the NHI Act and a private insurance policy cover the damage, the NHI Act typically covers the first loss, so you should consider the coverage under the NHI Act first. In some cases, neither the NHI Act nor a private insurance policy covers the damage.

In all cases, you must comply with your organisation's own internal processes and delegations, including the Fair Insurance Code (FIC). Under the NHI Act, you are also required to manage NHCover claims in accordance with the Code of Insured Persons' Rights. This Code sets out the rights of the insured person as well as the obligations of NHC and anyone authorised to perform claims management activities on our behalf. The Code of Insured Persons' Rights relates to NHCover claims and does not replace the FIC.

When we (or persons we authorise) make a referable decision<sup>1</sup> about an NHCover claim, an affected person<sup>1</sup> who disputes the decision may refer the dispute to the dispute resolution scheme.

#### Updates to this Manual e.

We may update this Manual (or part of it) from time to time. Updates will be in writing.

This Manual sets out our interpretation of the NHI Act as at 1 July 2024. It therefore applies to claims made in relation to initial damage<sup>2</sup> from a natural hazard occurring on or after 1 July 2024.

An updated part of this Manual may set out our interpretation of the NHI Act as at a later date, whether because of legal developments or otherwise. We will record that date against the updated part of the Manual. The update will be effective from the date recorded against it, or otherwise from the date we notify the required party of the update.

#### f. **NHI Act interpretation**

We must comply with the NHI Act and all applicable laws. This Manual sets out our interpretation of the NHI Act (as informed by relevant case law) as agreed by private insurers under the NHI Act NDRA in accordance with the NHC Insurers Manual

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Section 1 – Introduction

<sup>&</sup>lt;sup>1</sup> 'Referable decision' and 'affected person' are defined in <u>section 104(6) of the NHI Act</u>. Also, for

information on decisions that are not referable decisions, see regulation 17, NHI Regulations.

<sup>&</sup>lt;sup>2</sup> Initial damage is defined in <u>section 53 of the NHI Act</u>.

#### Page 14 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



development process under that agreement. However, this Manual does not act as a substitute for the NHI Act because:

- claims will arise in a diverse range of fact situations; and
- the interpretation of the NHI Act may be contested.

You should escalate the matter to the appropriate NHC representative where this Manual, the NHC Claims Manual – Residential Buildings – NHI Act, or the NHC Claims Manual - Residential Land - NHI Act:

- do not clearly provide for the fact situation or circumstances at hand; •
- are capable of more than one interpretation; or
- have been applied using more than one interpretation.

# **Relationship with NHC Claims Manual – Residential** g. Buildings - NHI Act, NHC Claims Manual - Residential Land -**NHI Act and the NHC Insurers Manual**

Two separate Manuals called the NHC Claims Manual – Residential Buildings – NHI Act and the NHC Claims Manual – Residential Land – NHI Act set out how we apply the NHI Act when dealing with residential building and land claims.

This Manual focuses on the process of assessing residential building claims and land claims for natural hazard damage. You should therefore read this Manual alongside those separate Manuals, as well as all other instructions from NHC.

In the case of insurers engaged under the NHI Act NDRA, this Manual forms part of the NHC Insurers Manual, which also includes a range of other Manuals, guidelines and policies.

## Expectations of those involved in the claims assessment h. process

#### **Overview** i.

All people engaged in claims assessments must:

- be sufficiently experienced, qualified and skilled for the purpose, in each case meeting the expectations in the NHC Insurers Manual;
- meet any applicable legal obligations (such as complying with health and safety obligations);

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Section 1 – Introduction

QBE

#### Page 15 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



- always conduct themselves in a professional manner; and
- be appropriately trained.

The qualifications and experience of those involved with an assessment should align with that party's agreement or contract and be in line with the Operating Elements document, both of which lie outside of this Manual.

#### ii. Capabilities

Any person involved with receiving, assessing and settling NHCover claims must have complied with all of our requirements in relation to personnel, experience and training as outlined in that party's agreement or contract, which lies outside of this Manual.

# iii. Soft skills and communication style

We expect our staff and contractors, private insurers (including their staff and contractors) and third-party providers (including their staff and contractors) to communicate with NHC customers in a fair, responsive, empathetic, straightforward and helpful manner.

All these people must:

at all times be honest, transparent, respectful and professional in their dealings with customers.

be able to work in partnership with our resources and other suppliers and specialists.

All communications must use a plain language style and avoid jargon, technical terms and acronyms. We must pre-approve any template communication that refers to NHC or uses the NHC logo.<sup>3</sup>

It is the assessor's role to explain to the customer what is and is not natural hazard damage and why, and to guide them through the claims process.

# iv. Keeping customers informed

You must regularly update customers on the status of their NHCover claim, in line with any of our standards about keeping customers informed, including the <u>Code of</u> Insured Persons' Rights. We will issue and notify you of these standards from time to time. You must also comply with your organisation's own internal processes, including the Fair Insurance Code.

<sup>3</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 11.e Use of NHC name and</u> logo/NHC Claims Manual – Residential Land – NHI Act, Section 12.e Use of NHC name and logo.

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Section 1 – Introduction

#### Page 16 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



At each stage where appropriate, advise the customer of the claims process and explain what the next step in that process is for their claim.

## a. Communicating settlement outcomes

You must communicate settlement outcomes to customers in accordance with <u>NHC</u> <u>Claims Manual – Residential Buildings – NHI Act, Section 10.A.c Advising the</u> <u>customer of the outcome of the residential building claim/NHC Claims Manual –</u> <u>Residential Land – NHI Act, Section 11.A.c Advising the customer of the outcome of</u> <u>the residential land claim</u>.

b. Extra care claims

When dealing with an NHCover claim, you must take reasonable steps to identify claims that need extra care based on the specific circumstances of the homeowner, occupant of the property, or third party who may be directly affected by the claims management process (extra care claim<sup>4</sup>).

You should comply with your organisation's guidelines (as agreed with NHC) for managing extra care claims.

# v. Health and safety

You must comply with the <u>Health and Safety at Work Act 2015 (HSWA)</u> and regulations under that Act in all relevant respects. You must also act in accordance with your organisation's health and safety policies and processes.

Private insurers and third-party providers (acting as our agents) must also meet their health and safety obligations as outlined in that party's agreement or contract with us or our agent, which lies outside of this Manual.

a. Dangerous and insanitary buildings and land

You must comply with our <u>Dangerous and Insanitary Buildings and Land Policy</u> on this matter, regardless of the working environment.

Take the approach detailed in these sections of the policy:

- Assessing the risk
- Notification of dangerous or insanitary buildings or land
- Other notification actions required

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Section 1 – Introduction

<sup>&</sup>lt;sup>4</sup> For more information about extra care claims, see our <u>Extra Care Claims Policy</u>. Your organisation may use other similar terms such as 'customers experiencing vulnerability'.

### Page 17 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



# Follow-up actions.

You are not expected to determine whether a building or land meets the legal definition of 'dangerous' or 'insanitary', only whether you believe it is too dangerous or insanitary for you to work safely. If you are unsure about whether it is safe to work on or occupy the building, you should engage an appropriate expert.<sup>5</sup>

If you believe that someone's health or safety is at risk due to a dangerous or insanitary building, you must notify the appropriate people as set out in our Dangerous and Insanitary Buildings and Land Policy. You must also advise the customer about your concerns, and you should keep them informed of any delays to the assessment of their claims that these issues may cause.

You must also manage all incidents, near misses and injuries according to our Incident Management Plan.

See also:

- Section 9 Unsafe properties in this Manual; and
- NHC Claims Manual Residential Buildings NHI Act, Section 11.b Notices restricting access to buildings/NHC Claims Manual – Residential Land – NHI Act, Section 12.b Notices restricting access to buildings.
- b. Sharing information to prevent or lessen a serious threat to health or safety

Generally, you should not disclose information about the property to anyone outside your organisation or NHC. However, you may make available any information you have to relevant third parties (e.g. police, medical providers or territorial authority (TA)) if you believe on reasonable grounds that doing so is necessary to prevent or lessen a serious threat to:

- public health or public safety; or
- the life or health of any individual.

Part 5, Subpart 3, the NHI Act

In this context, 'serious threat' has the same meaning as in the <u>Privacy Act 2020</u>:

serious threat means a threat that an agency reasonably believes to be a serious threat having regard to all of the following: (a) the likelihood of the threat being realised; and (b) the severity of the consequences if the threat is realised; and (c) the time at which the threat may be realised Section 7, Privacy Act 2020 - Definition of 'serious threat'

<sup>5</sup> See Section 7 Engaging experts.

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Section 1 – Introduction

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vero

Page 18 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



You do not need our prior approval to make this information available in these circumstances.

For further details on information sharing requirements, see NHC Claims Manual -<u>Residential Buildings – NHI Act, Section 11.f.i Sharing information/NHC Claims</u> <u>Manual – Residential Land – NHI Act, Section 12.f.i Sharing information.</u>

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Section 1 - Introduction

Page 19 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# i. Overview

The following diagram illustrates the steps involved in assessing and settling an NHCover claim. The questions that arise at each step are dealt with in the Manual sections indicated.

| Is there an insured residential building or residential land? |            |  |  |  |
|---|------------|--|--|--|
| What is an insured residential building?                      | 3.b to 3.f |  |  |  |
| What is insured residential land?                             | 4.b        |  |  |  |
| •   |            |  |  |  |
| Is there natural hazard damage?                               |            |  |  |  |
| What is a natural hazard?                                     | 2.c.i      |  |  |  |
| What is natural hazard damage?                                | 2.c.ii     |  |  |  |
|   |            |  |  |  |

| How is the natural hazard damage assessed?                             |                |
|--|----------------|
| What is the purpose of the claims assessment process?                  | 2.b            |
| What are the expectations of those involved in the assessment process? | 1.h            |
| What are the requirements and obligations under the NHI Act?           | 2.c            |
| How should a site assessment be planned?                               | 10             |
| How should a site assessment be carried out?                           | 11             |
| When and how should experts be engaged?                                | 7              |
| How should damage across multiple properties be assessed?              | 8              |
| How should unsafe properties be dealt with?                            | 9, 10, 11      |
| Which actions should occur after a site visit?                         | 12             |
| What are the standards for assessment documents?                       | 13, Appendix 4 |

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Section 1 - Introduction

| NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024 |   |                                |  |
|--|---|--------------------------------|--|
| Page <b>20</b>   | of <b>427   NHC Assessment Manual – NHI Act</b> | Version as at <b>13/5/2025</b> | Natural Hazards<br>Commission<br>Toka Tū Ake |
|  | When are urgent works required?                 |                                | 9, 10, 11                                    |
|  |   | •                              |  |

| How is the natural hazard damage identified?                       |                   |
|--|-------------------|
| How is natural hazard damage to a residential building identified? | 3, Appendix 4     |
| How is natural hazard damage to residential land identified?       | 4, Appendix<br>5b |
| How is imminent damage identified?                                 | 5                 |
| What are pre-existing conditions?                                  | 6                 |
|  |                   |

| What are the repair methodology and standards?              |            |
|---|------------|
| What are the repair methodology and standards?              | Appendix 3 |
| What are the building components and repair considerations? | Appendix 1 |
| What are the land components and repair considerations?     | Appendix 2 |
| How is natural hazard damage costed?                        | Appendix 3 |

UNCLASSIFIED

Section 1 – Introduction

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Page 21 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# j. Terms used in this Manual

The following terms, which are used throughout this Manual, are explained in the locations indicated. Other NHC terms are explained at the point in the Manual where they arise or in the <u>NHC Glossary</u>.

# Table 1: Terms used in this Manual

| Term                    | Manual section   |
|-------------------------|--|
| appurtenant structure   | NHC Claims Manual – Residential Buildings – NHI        |
|                         | Act, Section 4.D What is an 'appurtenant               |
|                         | structure'?/NHC Claims Manual – Residential Land       |
|                         | – NHI Act, Section 5.e What is an 'appurtenant         |
|                         | structure'?  |
| building cover cap      | NHC Claims Manual – Residential Buildings – NHI        |
|                         | Act, Section 8.e What is the maximum amount            |
|                         | (the building cover cap) that can be paid for a        |
|                         | residential building claim?                            |
| building cover excess   | NHC Claims Manual – Residential Buildings – NHL        |
|                         | Act, Section 8.h What excess applies for a             |
|                         | residential building claim?                            |
| diminution of value     | NHC Claims Manual – Residential Land – NHI Act,        |
|                         | Section 7.A.c.vi What is diminution of value?          |
| direct result           | Section 2.c.iv Is the physical loss or damage 'a       |
|                         | direct result' of a natural hazard? in this            |
|                         | Manual/ <u>NHC Claims Manual – Residential</u>         |
|                         | Buildings – NHI Act, Section 5.e Is the physical loss  |
|                         | or damage as 'a direct result' of a natural hazard'?   |
| dwelling                | NHC Claims Manual – Residential Buildings – NHI        |
|                         | Act, Section 4.C.c What is a 'dwelling'?               |
| eligible building       | NHC Claims Manual – Residential Buildings – NHL        |
|                         | Act, Section 4.C What is an 'eligible building'?       |
| fire insurance contract | <u>NHC Claims Manual – Residential Buildings – NHI</u> |
|                         | Act, Section 3.g, Was there a 'fire insurance          |
|                         | contract' or direct NHCover over the property          |
|                         | concerned in force at the relevant time?/NHC           |
|                         | <u>Claims Manual – Residential Land – NHI Act,</u>     |
|                         | Section 3.h, Was there a 'fire insurance contract'     |
|                         | or direct NHCover over the property concerned in       |
|                         | force at the relevant time?                            |

UNCLASSIFIED

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Section 1 - Introduction



Page 22 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| imminent damage            | Section 5 Imminent damage in this Manual  |
|----------------------------|---|
|                            | <u>NHC Claims Manual – Residential Buildings – NHI</u>  |
|                            | Act, Section 5.c.iv Physical loss or damage that is   |
|                            | <u>imminent damage/NHC Claims Manual –</u>  |
|                            | Residential Land – NHI Act, Section 6.c.iv Physical   |
|                            | loss or damage that is imminent damage  |
| insured person's land      | <u>NHC Claims Manual – Residential Land – NHI Act,</u>  |
|                            | Section 4.d What is the insured person's land?  |
| land cover cap             | NHC Claims Manual – Residential Land – NHI Act,   |
|                            | Section 9.e What is the maximum amount (the   |
|                            | land cover cap) that can be paid for a residential  |
|                            | land claim?   |
| land cover excess          | NHC Claims Manual – Residential Land – NHI Act,   |
|                            | Section 9.h What excess applies for a residential   |
|                            | land claim?   |
| market value               | NHC Claims Manual – Residential Land – NHI Act,   |
|                            | Section 7.A.b.iv Assessing the insured residential  |
|                            | land that is lost or damaged  |
|                            | Land Valuation Guide – NHI Act  |
| multi-unit building (MUB)  | Section 8.c.ii Determine whether there is a multi-  |
|                            | unit building (MUB) and if so, categorise it in this  |
|                            | Manual  |
| natural hazard             | Section 2.c.i What is a 'natural hazard'? in this   |
|                            | Manual  |
|                            | <u>NHC Claims Manual – Residential Buildings – NHI</u>  |
|                            | Act, Section 5.b What is a 'natural hazard'?/NHC  |
|                            | <u> Claims Manual – Residential Land – NHI Act,</u>   |
|                            | Section 6.b What is a 'natural hazard'?   |
| natural hazard damage      | Section 2.c Is there natural hazard damage? in this   |
|                            | Manual  |
|                            | <u>NHC Claims Manual – Residential Buildings – NHI</u>  |
|                            | Act, Section 5.c 'What is 'natural hazard damage'?  |
|                            | <u>NHC Claims Manual – Residential Land – NHI Act,</u>  |
|                            | Section 6.c What is 'natural hazard damage'?  |
| ownership interest         | <u> NHC Claims Manual – Residential Buildings– NHI</u>  |
|                            |   |
| (common, joint, or shared) | Act, Section 4.C.i Determining the common, joint,   |
| (common, joint, or shared) | Act, Section 4.C.i Determining the common, joint,<br>or shared ownership interest for a mixed-use |

UNCLASSIFIED

AA Insurance









Section 1 – Introduction

Page 23 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| physical loss or damage | Section 2.c.iii Is there physical loss or damage? in   |
|-------------------------|--|
|                         | this Manual  |
|                         | <u>NHC Claims Manual – Residential Buildings – NHI</u> |
|                         | Act, Section 5.d Is there 'physical loss or damage'?   |
|                         | <u>NHC Claims Manual – Residential Land – NHI Act,</u> |
|                         | Section 6.d Is there 'physical loss or damage'?        |
| reinstatement cost      | NHC Claims Manual – Residential Land – NHI Act,        |
|                         | Section 7.A.c.iii What is reinstatement cost?          |
| replacement cost        | Section 2.d.i.a What is the definition of              |
|                         | 'replacement cost'? in this Manual                     |
|                         | <u>NHC Claims Manual – Residential Buildings – NHI</u> |
|                         | Act, Section 6.A.c What is 'replacement cost'?         |
| residential building    | Section 3.b Is there an insured 'residential           |
|                         | building'? in this Manual                              |
| residential land        | Section 4.b Is there insured 'residential land'? in    |
|                         | this Manual  |
| service infrastructure  | NHC Claims Manual – Residential Buildings – NHI        |
|                         | Act, Section 4.E What is 'service infrastructure'?     |
| undepreciated value     | NHC Claims Manual – Residential Land – NHI Act,        |
|                         | Section 7.A.d.iv What is the undepreciated value       |
|                         | of the insured land structures for the purposes of     |
|                         | the land cover cap?                                    |
|                         |  |
|                         |  |

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Section 1 – Introduction

Page 24 of 427 | NHC Assessment Manual – NHI Act



# 2. Claimed damage assessment purpose and legislative components

# a. Overview

This section:

- discusses the purpose of the claimed damage assessment process;
- sets out the definition of natural hazard damage and the basis of cover for residential buildings and associated residential land;
- introduces the grounds for declining a claim under <u>sections 68 to 77 of the NHI Act</u> and the considerations that must be applied when using this discretion to decline.

The main purpose of assessing the customer's claim for damage to a residential building and/or land is to find:

- whether the residential building and/or land has suffered natural hazard damage; and
- the extent of that damage (if any).

Damage to residential buildings or residential land includes any damage that is imminent as the direct result of the natural hazard that has occurred. In this section of the Manual, a reference to 'damage' includes any such imminent damage.<sup>6</sup>

Assessing residential buildings or land claims typically involves:

- visiting the residential building<sup>7</sup> or land;<sup>8</sup>
- determining any natural hazard damage to the residential building<sup>9</sup> or land;<sup>10</sup> and
- engaging appropriate experts.<sup>5</sup>

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Section 2 - Claimed damage assessment purpose and legislative

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<sup>&</sup>lt;sup>6</sup> See Section 5 Imminent damage in this Manual.

<sup>&</sup>lt;sup>7</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6.A.f When must the assessor visit</u> <u>a residential building for an assessment?</u> and <u>6.A.g What are the requirements for visiting a</u> <u>residential building for an assessment?</u>.

<sup>&</sup>lt;sup>8</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.i When must the assessor visit the</u> residential land for an assessment? and <u>7.A.j What are the requirements for visiting residential</u> land for an assessment?.

<sup>&</sup>lt;sup>9</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6.A.h Other requirements for an</u> assessment of the natural hazard damage to the residential building.

<sup>&</sup>lt;sup>10</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 7.A.b.ii Assessing the type and extent of the natural hazard damage to the land area and land structures on the insured person's land and 7.A.b.iv Assessing the insured residential land that is lost or damaged.

## Page 25 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



In addition, assessing residential buildings typically involves costing the repair and/or replacement of residential buildings on the basis of the replacement cost.<sup>11</sup>

Assessing residential land also typically involves:

- formulating a conceptual remediation strategy<sup>12</sup> for the damaged residential land;
- costing the repair of land damage;
- valuing the damaged areas of insured land; and
- calculating the undepreciated value of damaged insured land structures.<sup>13</sup>

The claims assessment process<sup>14</sup> involves considering only relevant considerations and weighing the available evidence.

The output of the assessment<sup>15</sup> is full documentation recording the reasons underpinning, and the findings of, the assessment.

Where there are multiple events, follow the principles for assessing claims for natural hazard damage under <u>NHC Claims Manual – Residential Buildings – NHI Act, Section</u> 6.C Principles for assessment where there are multiple events/<u>NHC Claims Manual – Residential Land – NHI Act, Section 7.C Principles for assessment where there are multiple events</u>.

Where there is damage to multiple properties, e.g. shared land and/or multi-unit buildings, follow the principles for assessing claims for natural hazard damage under Section 8 Assessing damage across multiple properties in this Manual.

This section does not address situations where a repair has been completed in relation to the current claim, and a residential building or land needs to be reassessed, e.g. because that remediation strategy has failed. Additional considerations<sup>16</sup> apply in such assessments.

<sup>13</sup> See the <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.v Assessing the cost of repair</u>.

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Section 2 - Claimed damage assessment purpose and legislative

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<sup>&</sup>lt;sup>11</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6.A.h Other requirements for an</u> <u>assessment of the natural hazard damage to the residential building</u>.

<sup>&</sup>lt;sup>12</sup> See the <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.iv Assessing the conceptual</u> remediation strategy.

<sup>&</sup>lt;sup>14</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6.B.a What is the process for the assessment?/NHC Claims Manual – Residential Land – NHI Act, Section 7.B.a What is the process for the assessment?.</u>

<sup>&</sup>lt;sup>15</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6.B.b What is the output of the assessment?/NHC Claims Manual – Residential Land – NHI Act, Section 7.B.b What is the output of the assessment?.</u>

<sup>&</sup>lt;sup>16</sup> See the <u>Declining a Claim Guide – NHI Act</u>.

Page 26 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# b. What is the purpose of the claims assessment process?

The main purpose of a residential building assessment is to find:

- whether the residential building has incurred natural hazard damage; and
- the extent of any natural hazard damage and the customer's building claim entitlement.

The main purpose of a residential land assessment is to find:

- whether the residential land has incurred natural hazard damage;
- the extent of any natural hazard damage and the customer's land claim entitlement.

# i. Has the property incurred natural hazard damage?

The property (residential building and/or residential land) will have incurred natural hazard damage where there is:

- 'physical loss or damage'<sup>17</sup> to a residential building or residential land ...;
- ... occurring as 'the direct result'<sup>18</sup> of ...;
- ... a 'natural hazard'.<sup>19</sup>

Section 24(1), NHI Act

# ii. What is the amount of the natural hazard damage covered?

The <u>NHI Act</u> insures residential buildings on the basis of the replacement cost (subject to the building cover cap).

The NHI Act insures residential land on an indemnity basis (subject to the land cover cap). Before you can determine whether the land cover cap is reached, you must assess the amount of the natural hazard damage on the basis of the actual loss suffered. This is quantified using:

- the reinstatement cost; and/or
- the DOV.

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Section 2 - Claimed damage assessment purpose and legislative













<sup>&</sup>lt;sup>17</sup> See Section 2.c.ii What is natural hazard damage? in this Manual. For further details, see <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, Section 5.d Is there 'physical loss or damage'?</u>.

<sup>&</sup>lt;sup>18</sup> See Section 2.c.iv Is the physical loss or damage 'a direct result' of a natural hazard? in this Manual. For further details, see <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 5.e Is the</u> <u>physical loss or damage 'a direct result' of a natural hazard?</u>.

<sup>&</sup>lt;sup>19</sup> See Section 2.c.i What is a 'natural hazard'? in this Manual. For further details, see <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, Section 5.b What is a 'natural hazard'?</u>.

NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 27 of 427 | NHC Assessment Manual – NHI Act

#### Version as at **13/5/2025**



# c. Is there natural hazard damage?

# i. What is a 'natural hazard'?

For there to be 'natural hazard damage', there must be a natural hazard.

## a. What is the NHI Act definition of 'natural hazard'?

## The NHI Act states:

- (1) Each of the following is a **natural hazard**:
  - (a) an earthquake:
  - (b) hydrothermal activity:
  - (c) a landslide:
  - (d) a tsunami:
  - (e) volcanic activity:
  - (f) a flood:
  - (g) a storm:
  - (h) a natural hazard fire.

(2) However, the normal action of the wind or water causing gradual erosion (including, for example, coastal erosion, bank erosion, and sheet erosion) is not a natural hazard. <u>Section 23 NHI Act – 'natural hazard'</u>

Residential buildings and residential land have NHCover for earthquakes, hydrothermal activity, landslides, tsunamis, volcanic activity, and natural hazard fire occasioned by those types of hazards. But only residential land has NHCover for storms, floods and natural hazard fire occasioned by a storm or flood. In either case, NHCover only applies if there is a fire insurance contract or direct NHCover for the residential building on that land, which is in force at the relevant time.

b. Who determines whether a natural hazard has occurred under the NHI Act?

You must determine whether there is a 'natural hazard' under the NHI Act.

c. What is an 'earthquake'?

The NHI Act defines 'earthquake' as follows:

earthquake means ground shaking caused by seismic waves generated from tectonic processes or volcanic processes

Section 5(1), NHI Act – Definition of 'earthquake'

Earthquake includes ground shaking caused by volcanic processes, and the definition of volcanic activity expressly excludes ground shaking that constitutes an earthquake. Therefore, damage that is a direct result of such ground shaking is earthquake damage, not volcanic activity damage.

#### UNCLASSIFIED

Iag

Section 2 – Claimed damage assessment purpose and legislative

vero











## Page 28 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## d. What is 'hydrothermal activity'?

The NHI Act defines 'hydrothermal activity' as follows:

**hydrothermal activity** means the release of energy, gas, or other matter due to sub-surface or surface processes involving the convection and movement of hot waters driven by magmatic or tectonic processes resulting in surface phenomena (including, for example, hydrothermal steam explosions)

Section 5(1) NHI Act – Definition of 'hydrothermal activity'

e. What is a 'landslide'?

The NHI Act defines 'landslide' as follows:

**landslide** means movement (by way of 1 or more of falling, sliding, or flowing) of ground-forming materials (being 1 or more of natural rock, soil, or artificial fill) that, before they moved, formed an integral part of the ground, but not movement of the ground due to below-ground subsidence, soil expansion, soil shrinkage, or soil compaction (but see section 23(2)) Section 5(1), NHI Act – Definition of 'landslide'

<u>Section 23(2) of the NHI Act</u> provides that the 'normal action of the wind or water causing gradual erosion (including, for example, coastal erosion, bank erosion, and sheet erosion)' is not a natural hazard.

The central features of a 'landslide' are:

- there must be movement (whether falling, sliding, flowing or a combination); and
- the material that has moved must be ground-forming. It must:
  - $\circ~$  be natural rock, soil, artificial fill or a combination of those materials; and
  - have formed an integral part of the ground before the movement.

A landslide does not include:

- the movement of ground due to below-ground subsidence;
- the movement of ground due to soil expansion, soil shrinkage, or soil compaction; or
- gradual erosion caused by normal action of the wind or water.

## Landslide-related claims may be declined or limited in certain circumstances

A landslide may occur where human action is the trigger. A common example of this is the failure of an excavated slope that has been left unsupported. If the customer is responsible for this event, their claim may be declined or limited due to, for example:

- negligence;
- failure to meet construction standards; or
- failure to comply with any law or legal requirement.

UNCLASSIFIED

Iag

Section 2 - Claimed damage assessment purpose and legislative

vero











## Page 29 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For more information, see:

- the <u>NHC Claims Manual Residential Land NHI Act, Section 8.f What are the</u> grounds to decline <u>NHCover claims (in whole or in part)?</u>; and
- the <u>NHC Claims Manual Residential Land NHI Act, Section 8.g What are the</u> grounds to limit <u>NHCover?</u>.
- f. What is a 'tsunami'?

The NHI Act defines 'tsunami' as follows:

**tsunami** means a wave, or series of waves, generated when a large volume of water in the sea or a lake is rapidly displaced by an earthquake, landslide, meteorite, or volcanic activity <u>Section 5(1), NHI Act – Definition of 'tsunami'</u>

Tsunami includes flooding that is a direct result of a tsunami, as the definition of flood expressly excludes inundation due to a tsunami. Therefore, damage that is a direct result of such flooding is tsunami damage, not flood damage.

g. What is 'volcanic activity'?

The NHI Act defines 'volcanic activity' as follows:

**volcanic activity** means the release of energy, gas, water, rock, magma, or other matter due to sub-surface volcanic processes resulting in surface phenomena (including, for example, volcanic explosions, lava flows, or lahars), but not ground shaking that constitutes an earthquake <u>Section 5(1), NHI Act – Definition of 'volcanic activity'</u>

Volcanic activity excludes ground shaking that constitutes an earthquake. Therefore, damage that is a direct result of such ground shaking is earthquake damage, not volcanic activity damage.

h. What is a 'flood'?

The NHI Act defines 'flood' as follows:

**flood** means inundation of normally dry land by water due to a storm, a storm surge, or the escape or release of water from its normal confines, but not inundation due to a tsunami <u>Section 5(1) NHI Act – Definition of 'flood'</u>

Flood excludes inundation due to a tsunami. Therefore, flooding that is a direct result of a tsunami is tsunami damage, not flood damage.

UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

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**I** TOWER









#### Page 30 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



i. What is a 'storm'?

The NHI Act defines 'storm' as follows:

**storm** means a disturbance of the earth's atmosphere that includes 1 or more of strong winds, heavy precipitation, and lightning (including, for example, a gale, hailstorm, snowstorm, or tornado)

Section 5(1), NHI Act – Definition of 'storm'

j. What is a 'natural hazard fire'?

The NHI Act defines 'natural hazard fire' as follows:

**natural hazard fire** means fire occasioned by, through, or in consequence of any other natural hazard

Section 5(1), NHI Act – Definition of 'natural hazard fire'

In other words, a natural hazard fire is a fire that is occasioned by or through or as a consequence of:

- (in the case of NHCover for residential buildings and residential land) an earthquake, hydrothermal activity, landslide, tsunami, volcanic activity; and
- (in the case of NHCover for residential land) storm or flood.

# ii. What is natural hazard damage?

a. What is the NHI Act definition of 'natural hazard damage'?

The NHI Act defines 'natural hazard damage' as follows:

(1) Physical loss or damage to a residential building or residential land is **natural hazard damage** if—

- (a) it occurs as a direct result of a natural hazard; or
- (b) it occurs as a direct result of measures taken under proper authority to mitigate the consequences of a natural hazard; or

(c) it is imminent damage.

Section 24, NHI Act – 'natural hazard damage'

b. Components of subsection (1) (a) of the definition of 'natural hazard damage'

Subsection (1)(a) of the definition of 'natural hazard damage' can be broken down into the following components. There must be 'physical loss or damage' to the property ...;... occurring as 'the direct result' of ...; ... a 'natural hazard'.

Section 24, NHI Act – Subsection (1)(a) of 'natural hazard damage'

UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

**I** TOWER













## Page 31 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



c. Physical loss or damage that occurs as a direct result of measures taken under proper authority to mitigate the consequences of a natural hazard

Subsection (1)(b) of the definition of natural hazard damage covers physical loss or damage that occurs as a direct result of measures taken to mitigate the consequences of a natural hazard (referred to as 'mitigation damage'). An example is damage caused by Urban Search and Rescue (USAR) teams entering residential buildings by force after an earthquake to check on the safety of any person inside the building. The type of loss or damage covered by subsection 1 (b) is discussed separately – see Section 2.c.v What is 'mitigation damage'? in this Manual.

Section 24(1), NHI Act – Subsection 1 (b) of the definition of 'natural hazard damage'

d. Physical loss or damage that is imminent damage

Subsection 1(c) of the definition of 'natural hazard damage' covers physical loss or damage that has not yet occurred. For cover to apply:

- a natural hazard must have occurred; and
- as a direct result of that natural hazard, the loss or damage must be more likely than not to occur within 12 months after the natural hazard occurred.

For more information, see Section 2.c.vi What is 'imminent damage'? in this Manual.

If physical loss or damage is covered as 'imminent damage', and the loss or damage subsequently actually occurs, it cannot be claimed for again and is not considered natural hazard damage.

Section 24(5)(b), NHI Act

# iii. Is there physical loss or damage?

Under the NHI Act, 'physical loss or damage' occurring as a direct result of a natural hazard is covered.

Section 24, NHI Act – 'natural hazard damage'

a. Loss or damage must be physical

# Physical loss – not economic loss

Loss or damage in the context of the <u>NHI Act</u> means loss or damage to the physical materials or structure of the insured property. For example, depriving a person of the use of their home because of the threat of rockfall is not 'physical loss ... to the property' under the <u>NHI Act</u>. It is an economic loss.

UNCLASSIFIED

Iag

Section 2 - Claimed damage assessment purpose and legislative

vero











## Page 32 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Material physical change that affects the utility or amenity value of the insured property

The physical loss or damage must be a material physical change that adversely affects the utility or amenity value of the insured property (from a structural, functional or aesthetic perspective). Material physical change includes change that is 'more-than-negligible', i.e. something beyond the minor, inconsequential or immaterial.

There may be physical changes to insured property caused by a natural hazard that are not material or do not adversely affect the utility or amenity value of the property. In that case, the change is not natural hazard damage. For example, cracking to the foundation (which is covered by carpet) of a residential building caused by an earthquake is not natural hazard damage if it does not affect:

- the structural integrity of the foundations as a whole; or
- the floor's aesthetic value (and therefore does not impair the utility or amenity of the residential building).

It is a question of fact in each case whether:

- there is a material physical change to the insured property; and
- the material physical change adversely affects the utility or amenity value of the insured property.

# iv. Is the physical loss or damage 'a direct result' of a natural hazard?

Under the NHI Act, insured property is covered against 'natural hazard damage', which is any physical loss or damage occurring as 'a direct result' of a natural hazard.

Section 24, NHI Act – Subsection 1(a) of 'natural hazard damage'

a. Physical loss or damage must be 'a direct result' of a natural hazard

Whether physical loss or damage is 'a direct result' of a natural hazard is a question of fact to be resolved in the circumstances of the particular case. As a general rule, physical loss or damage to property is 'a direct result' of a natural hazard where the natural hazard is the proximate cause of the physical loss or damage.

Imminent damage that is mitigated before it can become actual or extended damage<sup>20</sup> is still a direct result of a natural hazard if the natural hazard is the

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Section 2 – Claimed damage assessment purpose and legislative

**I** TOWER











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<sup>&</sup>lt;sup>20</sup> For the definition of 'extended damage', see <u>NHC Claims Manual – Residential Buildings – NHI Act.</u> <u>Section 3.f.iii Situation where there is more than one natural hazard in a 48-hour period or 7-day</u> <u>period</u>.

#### Page 33 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



proximate cause of the damage. For more information, see Section 2.c.vi What is 'imminent damage'? in this Manual.

## Determining causation

Determining causation is largely a decision based on the factual circumstances and expert advice. When considering whether the natural hazard was the proximate cause of the physical loss or damage to the property, you should consider whether, in light of all the evidence viewed as a whole, the natural hazard was more likely than not the cause of the damage. In general, the natural hazard is the proximate cause of the physical loss or damage to property where:

- the natural hazard leads, in the natural and ordinary course of events, to that kind of loss or damage; and
- there is no break in the physical chain of causation.

# **Examples**

The following examples illustrate where a natural hazard has 'caused' the damage.

Example 1 – Damage to water pumps, taps and hot water cylinder in a residential building after a bore is damaged by earthquake

An earthquake has caused fine silt to be drawn into a water bore. Water from the bore is then pumped through the water supply system for the residential building. The silt in the water damages the cylinder, water pump and taps.

This damage is:

- the consequence of the earthquake, and it would occur in the natural and ordinary course of events; and
- there is no intervening cause that breaks the physical chain of causation.

The damage is therefore a direct result of the earthquake.

Example 2 – Residential building with cracks in the roof letting water in; section 124 notice means owners cannot access the residential building

An earthquake has caused cracks in the roof of a residential building. The cracks have let water in when it rained. The owners have been unable to access the residential building because a notice under <u>section 124 of the Building Act 2004</u> has been issued in respect of the property.

In this case, the water damage from the rain is:

- the consequence of the earthquake. It would occur in the natural and ordinary course of events; and
- there is no intervening cause breaking the physical chain of causation.

The water damage is therefore a direct result of the earthquake.

## UNCLASSIFIED

Section 2 – Claimed damage assessment purpose and legislative

vero

**I** TOWER











# Page 34 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



b. What if the natural hazard damage has also been caused or made worse by somebody's action or inaction?

In some cases, a claim for natural hazard damage can be declined (or only met in part). One such case is where the physical loss or damage – although a direct result of the natural hazard – has also been caused or made worse by somebody's action or inaction. These grounds to decline claims are set out in sections 68 to 77 of the NHI Act. For further details of the grounds for declining a claim, see the <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, Section 7 What are the grounds for declining an NHCover claim?</u>.

You must consider whether any physical loss or damage is a direct result of a natural hazard before – and separately from – considering whether there are any grounds to decline the claim. If the physical loss or damage is not a direct result of the natural hazard:

- there is no natural hazard damage;
- there is no need to consider the grounds to decline the claim under sections 68 to 77 of the NHI Act.

# **Examples**

Set out below are examples of relevant grounds where a claim can be declined because the natural hazard damage has been caused or made worse by somebody's action or inaction:

- A person has failed to take steps to mitigate the risk of natural hazard damage (where there were steps that could have reasonably been taken). This includes both the situation:
  - where a person has failed to mitigate the risk of natural hazard damage before the natural hazard occurred; and
  - where a person has failed to mitigate the risk of natural hazard damage after the natural hazard occurred. This includes where a payment was made for earlier natural hazard damage and that payment was not used to repair the property. In this case, the earlier natural hazard damage has caused the current natural hazard damage or made it worse.

## Section 73, NHI Act

• Certain property types (set out below) were not constructed in accordance with standards considered appropriate for that property at the time it was constructed, and the natural hazard damage occurred because of, or was made

UNCLASSIFIED

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Section 2 - Claimed damage assessment purpose and legislative

**I** TOWER









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#### Page 35 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



worse by, the failure to comply with those standards. The relevant property types are:

- any part of the residential building that is not an integral component of the eligible building;
- a retaining wall;
- $\circ$  a bridge; or
- $\circ$  a culvert.

## Section 76, NHI Act

• The insured person's intentional act, omission or negligence caused the natural hazard damage or made it worse.

Section 74, NHI Act

• A previous owner's or previous occupier's intentional act, omission or negligence caused the natural hazard damage or made it worse. The insured person was aware of that other person's intentional act, omission or negligence when the insured person acquired the property and was, or reasonably should have been, aware of the resulting risk.

Section 74, NHI Act

c. What if there are multiple causes of physical loss or damage?

The NHI Act provides that:

- residential buildings have NHCover for damage that occurs as a direct result of earthquakes, hydrothermal activity, landslides, tsunamis, volcanic activity and natural hazard fire occasioned by those types of hazards; but
- residential buildings do **not** have NHCover for damage that occurs as a direct result of storms, floods, and natural hazard fire occasioned by a storm or flood.

As a first step, it is necessary to determine what hazard has caused damage to the residential building.

If you determine that a residential building has suffered damage from multiple natural hazards, and the damage from one of those hazards is covered but the damage from another is not, you should escalate the matter to the appropriate NHC representative.

See also the NHC Claims Manual – Residential Buildings – NHI Act:

- <u>Section 3.f.iii Situation where there is more than one natural hazard in a 48-hour</u> period or 7-day period; and
- <u>Section 6.C Principles for assessment when there are multiple events</u>.

#### UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

vero











#### Page 36 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# v. What is 'mitigation damage'?

Physical loss or damage to property that occurs as a direct result of measures taken under proper authority to mitigate the consequences of a natural hazard (referred to as 'mitigation damage') is natural hazard damage per section 24(1)(b) of the NHI Act.

The NHI Act provides:

Mitigation damage

(2) Loss or damage referred to in subsection (1)(b)—

(a) is natural hazard damage regardless of whether it is intentional or accidental; and

(b) is taken to occur as a direct result of the natural hazard in relation to which the measures were taken.

Section 24(2), NHI Act

a. Section 24(2), NHI Act components of the 'mitigation damage' definition

The above provisions can be broken down into three key components. For there to be 'mitigation damage':

- there must be physical loss or damage to the property;
- the physical loss or damage must occur (whether intentionally or accidentally) as a direct result of measures taken under proper authority; and
- those measures must be to mitigate the consequences of a natural hazard;

For mitigation damage to have occurred, all components must be met. Each component is discussed below.

- 1. <u>There must be physical loss or damage to the property</u> (see Section 2.c.iii Is there physical loss or damage? in this Manual).
- 2. <u>The physical loss or damage must occur</u> (whether intentionally or accidentally) as a direct result of measures taken under proper authority.

The physical loss or damage to the property is a direct result of a measure taken under proper authority where:

- $\circ$  the measure has caused the physical loss or damage; and
- the physical loss or damage has occurred or is 'imminent' (see Section 2.c.vi What is 'imminent damage'? in this Manual).

In this context 'proper authority' could be authority derived from any enactment. An enactment is an Act or regulations. An example is USAR teams (which come under the umbrella of Fire and Emergency New Zealand (FENZ)). They cause physical loss or damage by the measures they take to break down doors and enter

#### UNCLASSIFIED

Section 2 – Claimed damage assessment purpose and legislative

vero

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## Page 37 of 427 | NHC Assessment Manual – NHI Act



residential buildings to check for the safety of the occupants of those buildings after an earthquake. They derive their authority from legislation governing (FENZ).

- 3. <u>Those measures must be to mitigate the consequences of a natural hazard</u>. The words 'to mitigate the consequences of a natural hazard' include both:
  - $\circ$  measures taken to avoid the spread of the natural hazard; and
  - measures taken to preserve life or otherwise assist people possibly hurt as a result of the natural hazard.
- b. Who determines whether 'mitigation damage' applies?

You determine whether 'mitigation damage' applies.

Sometimes the authority (for measures for mitigating the consequences of a natural hazard) will be granted by emergency legislation. You will determine whether mitigation damage applies, taking into account, in each case, the specific facts and legal position at the relevant time.

## vi. What is 'imminent damage'?

The NHI Act defines 'imminent damage' as:

(3) Physical loss or damage to a residential building or residential land that has not yet occurred is imminent damage if—

(a) a natural hazard has occurred (event 1); and

(b) the Commission is of the opinion that, as a direct result of event 1, the loss or damage is more likely than not to occur within 12 months after event 1 first occurred.

Section 24(3), NHI Act

For more information, see Section 5 Imminent damage in this Manual.

a. Components of imminent damage

The above provisions can be broken down into three key components. For there to be imminent damage:

- there must be the potential for physical loss or damage to property;
- the potential physical loss or damage must be 'a direct result' of the natural hazard that has occurred; and
- the potential physical loss or damage must be 'more likely than not to occur within 12 months' after the natural hazard occurred.

For imminent damage to have occurred, all components must be met.

UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

vero











#### Page 38 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



b. Who determines whether 'imminent damage' applies?

You (or the expert you have engaged) must determine whether 'imminent damage' applies.

## d. What is the basis of cover?

## i. Basis of cover for a 'residential building'

Under the NHI Act, a residential building is insured against natural hazard damage for its replacement cost.

The amount of the NHCover for a residential building is also subject to a maximum amount of insurance referred to as the 'building cover cap'.

But before it can be determined whether the building cover cap is reached, it is necessary to assess the amount of the natural hazard damage on the basis of the replacement cost.

Section 30, 31 NHI Act

a. What is the definition of 'replacement cost'?

Replacement cost, in relation to a residential building, is defined in the NHI Act as follows:

The replacement cost of the damaged parts of the residential building is the total cost that would reasonably be incurred to replace or reinstate the damaged parts of the building to a condition substantially the same as, but not better or more extensive than, their condition when they were new, but—

- (a) modified as necessary to comply with all applicable laws (such as the Building Act 2004 and the building code under that Act); and
- (b) replaced or reinstated using materials and methods that are currently in common use.

## Section 32(1), NHI Act

The replacement cost means the total of the costs that are reasonably incurred in doing all of the following:

 Replacing or reinstating the damaged parts of the residential building to a condition substantially the same as (but not better or more extensive than) their condition when they were new. This may include work that needs to be done to undamaged parts of the residential building to replace or reinstate the damaged parts, or relocating parts of the residential building. The condition 'when they were new' is modified as necessary to comply with any new applicable laws.

UNCLASSIFIED

Iag

Section 2 - Claimed damage assessment purpose and legislative













## Page 39 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- Demolishing and removing debris, but only to the extent that the demolition and removal is reasonably required to carry out the replacement or reinstatement work.
- Complying with any applicable laws relating to replacing and reinstating the residential building.
- Paying other fees or costs in the course of replacing or reinstating the residential building (for example, architects' fees and fees payable to local authorities).

For all of the four components above, GST is included.

What does 'when they were new' mean?

Under the NHI Act, the damaged parts of a residential building must be replaced or reinstated to a condition substantially the same as, but not better or more extensive than, their condition when they were new.

If a component only has a functional purpose, the requirements under the NHI Act are met by restoring that functional purpose to its condition when it was new. Where a component also has an aesthetic purpose, the remediation strategy must also (as far as possible) restore the original aesthetic quality of the component. The restoration is not required to be to the same level as modern standards but rather to the same level as the original standard.

A common issue that might arise relating to the 'when-new' repair standard is where a residential building was built with materials that are no longer available. Under section 32(1)(b) of the NHI Act, the damaged parts of the building are to be repaired using materials and methods that are currently in common use. The damaged parts must be returned to a condition that is substantially the same as, but not better or more extensive than, when the building was built.

Another issue is how the 'when-new' standard applies where there have been changes to the building laws since the residential building was built. In this case, under section 32(1)(a) of the NHI Act, the NHCover will meet the costs of modifying the residential building as necessary to comply with all applicable laws (such as the <u>Building Act 2004</u> and the Building Code under the Act).

For example, if a chimney of an older type residential building were damaged by an earthquake, and the Building Code required that the replacement chimney have a different specification than the one used when the building was built, the NHCover would meet the cost of the improvement.

However, if there had been a legal obligation to modify the residential building (whether at the time or in the future) immediately before the natural hazard damage, the replacement cost would not include the modifications required to comply with

UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

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## Page 40 of 427 | NHC Assessment Manual – NHI Act



that legal obligation. For more information, see <u>NHC Claims Manual – Residential</u> <u>Buildings – NHI Act, Section 6.A.d What does the 'replacement cost' not include?</u>.

b. What demolition and removal of debris is reasonably required for replacement or reinstatement work?

The cost of demolishing a building element and removing any associated debris should be included in the replacement cost to the extent that is reasonably required to carry out the replacement or reinstatement works.

If a relevant construction professional would consider repair or removal of debris a reasonable and necessary solution as part of the overall repair strategy, this indicates the work is reasonably required.

c. Situation where reinstatement or replacement requires doing work on undamaged property elements

It is sometimes necessary to do work on an undamaged part of the residential building to meet the replacement cost standard. An example of this is removing undamaged floorboards to repair foundations.

In these situations, NHCover includes the cost of:

- the work on the undamaged part of the residential building that is necessary to carry out the repair;
- reinstating the undamaged part if it was damaged in the course of the work being done on it; and
- modifying the undamaged part, if any laws or legal requirements, e.g. the performance standards in the <u>building code</u>, require the undamaged part to be modified as a result of the work being done on it.

Whether work on an undamaged part of the residential building is necessary to replace or reinstate the damage depends on the particular circumstances of each damaged residential building.

## <u>Example</u>

The following is an example of how the replacement cost standard may apply in practice.

Following an earthquake, a brick chimney falls through the corrugated iron roof of a 1900s-era villa.

The falling chimney smashes through the ceiling, shattering a ceramic light fitting, whose wiring was not compliant with the building code but was functional before

UNCLASSIFIED

IQQ

Section 2 - Claimed damage assessment purpose and legislative













## Page 41 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



the earthquake. The insured person had no legal obligation to replace the wiring immediately before the earthquake.

To repair the roof, the corrugated iron in the area where the chimney fell would be replaced with new corrugated iron. If corrugated iron of the same type as the damaged corrugated iron is not available because it is no longer manufactured, the new corrugated iron would be a modern compatible product, which matches as closely as possible the profile of the damaged corrugated iron.

It would also be necessary to repair or replace undamaged parts of the roof that need to be removed to repair the earthquake damage, e.g. the iron ridging on the roof apex.

The repair work to the roof would be carried out to ensure that the work meets applicable laws such as the performance standards in the <u>building code</u>.

The light fitting would be replaced. If the existing wiring could not be safely reconnected to the light fitting, an electrical safety inspection would be required. The wiring would need replacing to a point where the electrician determines it can safely be reconnected, and to meet any legal requirements for that work.

## Residential buildings with structural or design issues

Before finalising the assessment of a residential building with structural or design issues, e.g., weathertightness issues arising from the specific design or construction of the building, see Section 6 Pre-existing conditions in this Manual.

d. Relocating parts of the residential building

The replacement cost can include the cost of relocating part of the residential building (see <u>section 32(2)(a)(ii) of the NHI Act</u>).

The NHI Act expressly allows a claim to be settled by relocating all or part of the residential building (even if this includes moving parts of the residential building that are undamaged). If relocated, the residential building (or any part of it) must be reinstated to a condition substantially the same as, but not better or more extensive than, its condition when it was new. This includes repairing any damage that was reasonably incurred as part of the relocation (see Section 8.c.iv Identify any natural hazard damage in this Manual).

e. How does 'replacement cost' apply with respect to floor levels?

If the natural hazard damage includes floor dislevelment, whether relevelling is required is determined under the <u>NHI Act</u>. Any relevelling is on the basis of the replacement cost standard. See the <u>NHC Claims Manual – Residential Buildings – NHI Act</u>, <u>Section 6.A.c.i What is the definition of 'replacement cost'?</u>.

## UNCLASSIFIED

IQQ

Section 2 - Claimed damage assessment purpose and legislative













## Page 42 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The replacement cost standard does not mean that a residential building must necessarily be replaced or reinstated to exactly the same as it was when it was new. This is a particular issue where a residential building has floors that were not level before a natural hazard and the residential building has previously been altered to accommodate the floors not being level.

If the floors were to be completely re-levelled, it could damage the other parts of the residential building that had previously been altered. In those circumstances, a repair of the foundation system that does not result in the floors being completely level may be sufficient to meet the requirements of the <u>NHI Act</u>. What is required will depend on the circumstances of each residential building. Any repair strategy must also comply with all applicable laws, e.g. the <u>Building Act 2004</u>.

f. How does the 'replacement cost' standard apply where there is a cash settlement?

If the claim is cash settled, the payment must be the replacement cost of the property as defined in section 32 of the NHI Act (and otherwise in accordance with the provisions of the NHI Act, including the building cover cap. This replacement cost standard of repair is the same whether the NHCover claim is cash settled or the residential building is repaired.

g. How does the 'replacement cost' apply to shared, common or joint property?

Assessing replacement cost involves an additional step where property is:

- shared;
- common; or
- joint.

Common and joint property only apply where there is a mixed-use building.

For an explanation of shared land, common land, joint land and mixed-use buildings, see Section 8 Assessing damage across multiple properties in this Manual.

To assess the replacement cost for shared, common and joint property, you must determine the replacement cost as usual. You must then multiply the cost by the insured person's shared, common, or joint ownership interest (depending on the nature of the property) to quantify the proportionate amount that is covered under the person's NHCover claim (see Section 8 Assessing damage across multiple properties in this Manual).

For example, if the replacement cost for a shared wall was determined to be \$10,000 (using the natural hazard damage assessment of replacement cost set out in the <u>NHC</u> <u>Claims Manual – Residential Buildings – NHI Act, Section 6.A.c.i to 6.A.c.iii and</u>

## UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

vero













## Page 43 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Section 6.A.c.vii) and the insured person had a half share in the repair responsibility of the wall, the replacement cost would be:

There may be circumstances where property that is both shared property and common property (or shared property and joint property) is damaged. In this scenario, the replacement cost for the shared property is calculated first, and then the common property (or joint property) replacement cost (with any necessary modifications) is calculated.

h. How does 'replacement cost' apply to imminent damage?

The replacement cost for imminent damage must be determined using either (or a combination of) the cost to:

- prevent the imminent damage from occurring (the mitigation cost), or
- repair the imminent damage once it has occurred (the future replacement cost)

For further information on using either one, or a combination of the above options, see:

- Section 5.b What the NHI Act covers in this Manual;
- the NHC Claims Manual Residential Building NHI Act, Section 6.A.c.viii;
- the Imminent Damage Guide NHI Act.

## ii. Basis of cover for 'residential land'

The NHI Act insures residential land on an indemnity basis (up to the land cover cap). Unlike residential buildings, residential land is not insured against natural hazard damage on a 'replacement cost' basis but on a 'reinstatement cost' basis.

The land claim entitlement for an NHCover residential land claim is subject to a maximum amount of cover (referred to in the <u>NHI Act</u> as the 'land cover cap'). In summary, the land cover cap is the sum of:

- the assessed market value of the damaged part of the insured land area (or other smaller specified area of land); and
- if there are damaged insured land structures, **the lesser of**:
  - the undepreciated value of the damaged insured land structures (see the <u>NHC Claims Manual – Residential Land – NHI Act, Section 9.e.iii</u>); and
  - the number of dwellings in the residential building multiplied by a fixed value (the 'applicable limit') (see the <u>NHC Claims Manual Residential</u> <u>Land – NHI Act, Section 9.e.i</u>).

## UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative









## Page 44 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



But before it can be determined whether the land cover cap is reached, it is necessary to assess the amount of the natural hazard damage on the basis of the actual loss suffered (see the <u>NHC Claims Manual – Residential Land – NHI Act, Section</u> <u>7.A Assessment of residential land damage</u>). This can be quantified using:

- the reinstatement cost; or
- the DOV.

For details on how to determine whether to use reinstatement cost or the DOV to quantify the actual loss suffered, see the <u>NHC Claims Manual – Residential Land –</u> <u>NHI Act, Section 7.A.c.i What is the actual loss suffered?</u>.

## a. Reinstatement cost

Reinstatement cost, in relation to residential land, is defined in the NHI Act as follows:

(1) The **reinstatement cost** of residential land (or part of it) is the total cost that would reasonably be incurred to reinstate the damaged residential land (or that part of it) in a way that would be reasonably sufficient in the circumstances. <u>Section 41(1), NHI Act</u>

The reinstatement cost means the total of the costs that are reasonably incurred in doing all of the following:

- Reinstating the damaged parts of the residential land in a way that would be reasonably sufficient in the circumstances. This may include work that needs to be done to undamaged parts of the residential land to reinstate the damaged parts. Reinstatement call be full, partial, or a combination of both.
- Complying with any applicable laws relating to reinstating the residential land.
- Paying other fees or costs in the course of reinstating the residential land (for example, architect's fees and fees payable to local authorities).

For all of the three components above, GST is included.

For more information on reinstatement cost, see the NHC Claims Manual – Residential Land:

- Section 7.A.c.i What is the actual loss suffered?; and
- Section <u>7.A.c.iii What is reinstatement cost?</u>.

Sometimes it may be appropriate to settle a residential land claim (or part of that claim) on the basis of the reduction of value to the property caused by the land damage. This mode of settlement is an alternative to settlement on the basis of the cost of repairing that damage. This reduction of value is called diminution of value (DOV). For more information, see the <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.vi What is diminution of value?</u>.

#### UNCLASSIFIED

Section 2 – Claimed damage assessment purpose and legislative













## Page 45 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



## When might it be appropriate to obtain a valuation of the DOV?

In general, it may be appropriate to settle a residential land claim (or part of that claim) by paying DOV (rather than the cost of repair) if:

- it is not feasible to carry out a repair of the damage;
- it is not possible to carry out the repair lawfully. For example, it may not be possible to get a resource consent to carry out the repair;
- you are satisfied that the customer does not intend to undertake the repair of the land within a reasonable period of time (if at all); or
- the cost of the repair work is disproportionate to the reduction of value to the property caused by the land damage. In this case, you consider customer's particular circumstances (including what they have said they intend to do about repairing the land).

In the past, we have settled on the basis of DOV in some cases where there are certain types of complex land damage. For example, we have settled on the basis of DOV for some properties with increased liquefaction vulnerability (ILV) and increased flooding vulnerability (IFV) land damage.

You may settle on the basis of DOV where land has been lost (e.g., a cliff has collapsed) and cannot be restored.

## Settlements using both reinstatement cost and DOV

In some cases, it may be appropriate to settle a claim partly by paying the reinstatement cost and partly by paying DOV. For example, a landslide may have:

- damaged a retaining wall (which is repairable); and
- resulted in the permanent loss of an area of land that cannot be restored (for example, where a cliff has collapsed).

In such cases, the amount of the damage to the residential land may be settled by adding:

- the reinstatement cost for the damage that can be repaired (in the above example, the repairable retaining wall); and
- the DOV (if any) of the property caused by the unrepairable land damage (in the above example, the lost land that cannot be restored).

The settlement amount is always subject to the land cover cap – see Section 2.d.ii Basis of cover for 'residential land' in this Manual.

For more details on settling a residential land claim (or part of that claim) by paying DOV, see the <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.ii What</u> <u>method is used to quantify the actual loss suffered?</u>. If it is identified that assessment

## UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative













## Page 46 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



on the basis of DOV may be appropriate, you must escalate the matter to the appropriate NHC representative.

b. How does the 'reinstatement cost' apply to shared, common or joint land?

Assessing reinstatement cost involves an additional step where residential land is:

- shared;
- common; or
- joint.

Both common and joint land only apply where there is a mixed-use building. For an explanation of shared land, common land, joint land and mixed-use buildings, see Section 8 Assessing damage across multiple properties in this Manual.

If there is more than one residential building situated at a single property, you must determine the insured residential land in relation to each residential building (excluding service infrastructure).

To assess the reinstatement cost for shared, common and joint land, you must determine the reinstatement cost as usual. You must then multiply the cost by the insured person's shared, common, or joint ownership interest (depending on the nature of the property) to quantify the proportionate amount that is covered under the person's NHCover claim (see Section 8 Assessing damage across multiple properties in this Manual).

For example, if the reinstatement cost for a shared retaining wall was determined to be \$20,000 using the natural hazard damage assessment of reinstatement cost (set out in the <u>NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.iii What is reinstatement cost?</u> and <u>Section 7.A.e How are the proportionate costs, values and amounts for shared, common or joint land determined?</u>) and the insured person had a half share in the repair responsibility of the wall, the reinstatement cost would be:

\$20,000 x 50% = \$10,000.

There may be circumstances where land that is both shared land and common land (or shared land and joint land) is damaged. In this scenario, the reinstatement cost for the shared land is calculated first, and then the common land (or joint land) reinstatement cost (with any necessary modifications) is calculated.

UNCLASSIFIED

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Section 2 – Claimed damage assessment purpose and legislative













## Page 47 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



c. How does 'reinstatement cost' apply with respect to imminent damage?

The reinstatement cost for imminent damage must be determined using either (or a combination of) the cost to:

- prevent the imminent damage from occurring (the mitigation cost); or
- repair the imminent damage once it has occurred (the future replacement cost)

For further information on using either one, or a combination of the above options, see:

- Section 5.b
- What the NHI Act covers in this Manual
- NHC Claims Manual Residential Land NHI Act, Section 7.A.c.iii; and
- Imminent Damage Guide NHI Act.

## e. Consequential loss

'Consequential loss' is not covered under the NHI Act.

## Section 28(3) NHI Act

The NHI Act states that 'consequential loss' includes temporary accommodation costs, loss of profits, loss or damage as a result of theft, vandalism, or business interruption, or loss of intangible property. This list is not exhaustive.

Sometimes the natural hazard may merely 'set the scene'. The physical loss or damage may, in fact, be as the direct result of human intervention, e.g., a vandal or a thief. These types of physical loss or damage are not covered under the NHI Act.

## **Examples**

- Temporary accommodation costs. An example of these are costs incurred by renting alternative accommodation. This applies either where alternative accommodation is necessary because the dwelling has suffered natural hazard damage to the point it cannot be occupied, or because the dwelling needs to be temporarily vacated for repairs to occur.
- Loss of profits and business interruption. An example of this is when a landlord's residential rental property suffers natural hazard damage, resulting in the tenants having to move out for repairs to the dwelling.
- Intangible property. An example of this is where a home automation and security system is damaged by a natural hazard, resulting in the loss of data stored on the system (such as recorded video).

If there is consequential loss, you should consider whether it is covered by a private insurance policy. Loss of profits and business interruption are also not covered under the NHI Act. An example of this is when a landlord's residential rental property

## UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative













## Page 48 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



suffers natural hazard damage, resulting in the tenants having to move out for repairs to the dwelling. This loss of rent is not covered because it is a consequential loss. In this case, you should consider the homeowner's private insurance policy response.

The application of consequential loss considerations may be different for various private insurers and the policies they hold. In difficult cases, you should escalate to the appropriate NHC representative.

## f. Pre-existing conditions

Natural hazard damage needs to be distinguished from damage that was preexisting or otherwise resulted from other causes.

You must consider all available relevant evidence in deciding whether the physical change was the direct result of a natural hazard. Relevant evidence may include both expert evidence, and observations of the customer and those who saw the damage before the natural hazard.

Under the NHI Act, there is only cover for costs directly linked with a natural hazard. However, the NHCover may still repair damage from other causes. Sometimes it is necessary to repair that other damage to repair the natural hazard damage lawfully and properly. Whether this is necessary will be a question of fact in each case.

If there was an existing legal requirement for the customer to make modifications to the property at the time the natural hazard occurred or in the future, you must exclude the cost of these from the scope of works.

For full details, see Section 6 Pre-existing conditions in this Manual.

## g. Grounds for declining an NHCover claim

You may decide to decline (or meet only part of) a claim on a case-by-case basis under sections 68 to 77 of the NHI Act. This is a highly fact-dependent exercise, and you must ensure that your decision is lawful, procedurally fair, reasonable and made with an open mind. Any decision to decline or meet part only of an NHCover claim is discretionary. However, it is still subject to legal challenge, including by way of judicial review.

UNCLASSIFIED

Section 2 - Claimed damage assessment purpose and legislative

vero















Page 49 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For more information on considering a claim under sections 68 to 77 of the NHI Act, see the:

- <u>NHC Claims Manual Residential Buildings NHI Act, Section 7 What are the</u> <u>grounds for declining an NHCover claim?/NHC Claims Manual – Residential Land –</u> <u>NHI Act, Section 8 What are the grounds for declining an NHCover claim?</u>; and
- <u>Declining a Claim Guide NHI Act</u>.

UNCLASSIFIED

Section 2 – Claimed damage assessment purpose and legislative













Council of New Zealan Page 50 of 427 | NHC Assessment Manual – NHI Act



# 3. Identifying natural hazard damage to a residential building

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manual – Residential Buildings – NHI Act, particularly <u>Section 4 Is there</u> an insured 'residential building'?. An overview of this section is provided below.

## a. Overview

All residential buildings in New Zealand have cover for natural hazard damage if they have a current fire insurance contract or direct NHCover.

It is necessary to identify first whether there is an insured residential building, and if so, whether there is natural hazard damage to the residential building.

The main purpose of a residential building assessment is to find:

- whether the residential building has incurred natural hazard damage; and
- the extent of any natural hazard damage and the customer's insurance entitlements.

## b. Is there an insured 'residential building'?

The definition of residential building makes it clear which buildings, parts of buildings, appurtenant structures and service infrastructure are insured under the <u>NHI Act</u> and which are not.

In general terms, to find what property is an insured residential building, it is necessary to identify:

- a dwelling;
- an eligible building;<sup>21</sup>
- the residential building itself, which may include:
  - the whole of an eligible building; or
  - in the case of a mixed-use building, all of the dwellings in the eligible building';
- appurtenant structures;
- the service infrastructure.

UNCLASSIFIED

Section 3 - Identifying natural hazard damage to a residential building

vero













<sup>&</sup>lt;sup>21</sup> For the definition of 'eligible building', see <u>section 7 of the NHI Act</u>.

Page 51 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



A building, or part of a building, that is used to provide long-term accommodation for the elderly is a dwelling under the NHI Act, and is therefore covered on the same basis as any other residential building.

<u>Schedule 2 of the NHI Act</u> lists property that is not covered under the NHI Act or that is only covered in limited circumstances. This schedule has the effect of excluding some property that may otherwise be insured as components of the residential building.

# c. Distinguishing natural hazard damage from pre-existing conditions

To be covered under the <u>NHI Act</u>, damage must be the direct result of the natural hazard as defined in the NHI Act.

When identifying natural hazard damage, you must also consider any pre-existing conditions,<sup>31</sup> including any damage not caused by the natural hazard.

If the cause of damage is not clear, engage appropriate experts<sup>5</sup> to provide advice.

## d. Indicators of the extent of damage

It is important when you are assessing natural hazard damage that you can identify and understand types of building damage, and the actions that you need to take, based on the type of building damage you identify. Any remediation work must be scoped by people sufficiently experienced, qualified and skilled for the purpose.

We generally consider damaged buildings to fall into three categories – minor, moderate and severe.

Minor damage:

- Minor damage is always cosmetic in nature.
- It typically does not require an expert to be engaged for further quantification.

Moderate damage:

- Moderate damage contains structural or weathertightness issues.
- It may require an expert for further quantification.
- In some cases, it may require invasive investigations to quantify the damage.
- Generally, buildings with moderate damage remain safe to live in or can be made safe with urgent works.<sup>132</sup>

Severe damage:

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- Severe damage involves significant structural or weathertightness issues.
- It most often requires an expert<sup>5</sup> for further quantification.

## UNCLASSIFIED

Section 3 - Identifying natural hazard damage to a residential building

vero











## Page 52 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- In some cases, it may require invasive investigations to quantify the damage.
- Often, buildings with severe damage are unsafe<sup>22</sup> to occupy and will remain so until substantive repairs are carried out.
- Severe damage may result in a total loss of the building.

Imminent damage<sup>6</sup> may exist in any of the three categories of damage. It is more common for land claims but can also occur in building claims.

Identifying which category of damage the property you are assessing falls into will help you determine and prioritise the appropriate next steps in your assessment. In any of the three categories, an element of another category may be present. In these cases, you should first address the most significant damage that you identify.

## e. Factors that may determine the nature of natural hazard damage to a residential building

Many factors affect the type and extent of damage that natural hazards cause to a building. These can include:

- the natural hazard type;
- the original construction of the building, including the style, footprint, number of levels, condition, construction type and materials;
- any changes to the original construction, i.e. modifications, additions, and level of maintenance; and
- the topography and ground conditions surrounding and supporting the residential building.

Damage types can also overlap. Common natural hazard damage to land elements is covered in Section 8 Assessing damage across multiple properties in this Manual.

The information below provides a summary of the damage you may identify in relation to specific building elements.

## f. Features of natural hazard damage to a residential building

Some common features of natural hazard damage to a residential building are described below. These examples are provided as guidance or reference only, and are not intended to be exhaustive.

## i. Common natural hazard damage to building elements

The below is not a complete list but provides an overview of the more common types of natural hazard that can occur. The resulting damage can range from minor to severe.

UNCLASSIFIED













## Page 53 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



In all cases, consider dangerous or insanitary buildings.<sup>22</sup>

Under the NHI Act, natural hazard damage to residential buildings arising from a storm or flood is not covered. Only the residential land is covered for storm or flood damage.

Earthquake:

- Impact damage
- Chimney damage, e.g. cracking, tilting, collapse
- Cladding damage, e.g. internal lining and external cladding movement, cracking at joins and connections
- Damage to service infrastructure, i.e. water supply, drainage, sewerage, gas, electricity, heating or telecommunications
- Foundation damage, e.g. settlement, cracking, movement of piles



Figure 1 Pile settlement due to loss of support

- Roofing damage, e.g. loose fixings, damaged framing, cladding and impact damage
- Racking, twisting, hogging and bulging of various building elements, e.g. superstructure, walls, doors, floors
- Total building failure (extreme cases)

Landslide:

- Impact damage from falling, sliding or flowing of debris
- Foundation, cladding or roofing damage

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UNCLASSIFIED

Section 3 - Identifying natural hazard damage to a residential building









<sup>&</sup>lt;sup>22</sup> See Section 9 Unsafe properties.

#### NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

## Page 54 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- Racking, twisting and bulging of various building elements
- Loss of building support due to evacuated land
- Moisture damage from wet material sitting against the building
- Total loss of building due to inundation or being displaced by land movement



Figure 2 Landslide resulting in undermining of dwelling foundation

## Tsunami:

- Debris inundation
- Impact damage from debris and water
- Water damage to electrical fixtures, fittings and supply
- Inundation and water damage to inground services, e.g. septic and water storage tanks
- Corrosion of building materials
- Undermined building foundations due to high-speed water flow and pressure
- Total loss of the building due to impact from debris in the water or being swept away



Figure 3 Total loss of dwelling due to tsunami impact

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## Page 55 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Hydrothermal activity:

- Heat damage from expulsion of gases or hydrothermal activity, e.g. cupping of flooring, failed electrical wiring and insulation
- Water or moisture damage, e.g. warping or swelling of kitchen cabinetry, mould
- Impact damage from ejecta
- Foundation settlement from softened subsoils and voids that are the direct result of the hydrothermal activity



Figure 4 Heat damage to cladding from hydrothermal activity

Volcanic activity:

- Heat damage from proximity to lava flow
- Impact damage from ballistics
- Degradation of finishes due to prolonged exposure to chemically reactive ash and particulate
- Roof deformation due to ash inundation
- Compromised effluent disposal fields due to ash inundation
- Total loss of the building due to destruction from volcanic activity



Figure 5 Lava flow from volcanic activity impacting dwelling

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## Page 56 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Natural hazard fire:

- Smoke damage
- Water damage
- Heat damage
- Fire damage
- Damage caused by fire-fighting measures



Figure 6 Natural hazard fire damage

## ii. Common natural hazard damage observations to specific exterior cladding types

The following building material types relate to the most common building construction types found in New Zealand and generally to single dwelling (or non-complex multi-unit building)<sup>23</sup> construction. Building materials not mentioned here may require further guidance or specialised assessment. See also Appendix 1 Building components and repair considerations.

UNCLASSIFIED

Section 3 – Identifying natural hazard damage to a residential building

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<sup>&</sup>lt;sup>23</sup> For more information about multi-unit buildings, see Section 8 Assessing damage across multiple properties.

## Page 57 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



a. Lightweight cladding

Weatherboard claddings made of timber, fibre-cement, PVC or aluminium:

Movement and cracking



Figure 7 Weatherboard movement and cracking

• Moisture damage from debris resting against the dwelling, e.g. liquefaction or landslide debris



Figure 8 Moisture damage to weatherboards

Metal claddings with various profiles, colours and finishes:

Buckling, stretching and warping, e.g. due to impact damage or shaking

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Page 58 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 9 Impact damage to metal cladding

• Corrosion, e.g. due to chemical exposure (particularly susceptible)

Sheet and panel materials made from plywood and fibre-cement, with a variety of treatments and facings:

- Cracking across the sheet compromising its integrity
- Cracking to the coating enabling moisture to reach the backing fibre cement or plywood

Exterior insulation and finishing systems (EIFS):

- Cracking across the sheet compromising its integrity
- Cracking to the coating of the panel allowing water ingress, and ultimately complete failure of the panel, e.g. cracking to a plaster finishing system



Figure 10 Cracked EIFS panel (BRANZ)

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Section 3 – Identifying natural hazard damage to a residential building

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## Page 59 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



b. Medium and heavyweight cladding (mass greater than 30 kg/m<sup>2</sup> of wall)

Stucco more than 25mm thick – cracking (older products are more susceptible to cracking, do not tolerate movement well)



Figure 11 Cracked stucco panel

Some aerated concrete panels:

- Cracking at panel joints or connections
- Misalignment of panels
- Panels becoming detached



Figure 12 Cracked concrete panel

## Precast concrete panels:

- Cracking in the panel
- Cracking at panel joints or connections
- Misalignment of panels
- Panels becoming detached

UNCLASSIFIED

Section 3 – Identifying natural hazard damage to a residential building









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## Page 60 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



Brick and stone veneers (timber or steel framing):

- Step cracking from movement, e.g. ground movement from earthquake or other natural hazard
- Loosening of brick ties
- Cracking of stone veneers
- Total detachment of brick cladding
- Dislodgement of sill blocks



Figure 13 Step cracking to brick cladding with detachment

Un-reinforced masonry:

- Total failure due to low structural integrity (nonductility)
- Step cracking from movement, e.g. ground movement from earthquake or other natural hazard



Figure 14 Severely cracked brick wall

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Section 3 – Identifying natural hazard damage to a residential building

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Page 61 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



## iii. Common natural hazard damage observations to specific interior lining types

The following building material types relate to the most common building construction types found in New Zealand and generally to single dwelling (or non-complex multi-unit building)<sup>24</sup> construction. Building materials not mentioned here may require further guidance or specialised assessment.

See also Appendix 2 Land components and repair considerations in this Manual.

Plasterboard:

- Non-structural cracking at sheet joins and openings
- Structural damage



Figure 15 Structural cracking



Figure 16 Structural cracking

<sup>24</sup> For more information about multi-unit buildings, see Section 8 Assessing damage across multiple properties.

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## Page 62 of 427 | NHC Assessment Manual – NHI Act

#### Version as at **13/5/2025**





Figure 17 Structural cracking

- Impact damage
- Moisture damage



Figure 18 Moisture damage

Lath and plaster:

- Cracking
- Detachment of large patches of the plaster from the lath (drumminess)
- Moisture damage

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Page 63 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 19 Cracking and detachment damage to a lath and plaster wall

## Hardboard:

- Cracking at joins, particularly where beads have been removed and plaster used on the joins
- Sheet cracking or breaking off from wall frame movement
- Moisture damage

## Softboard:

- Collapsed ceiling tiles
- Moisture damage (very susceptible)
- Buckling

'Tongue and groove' (T and G) – This building element is generally affected by more severe global building damage. T and G lining more commonly suffers damage to paint finishes.

## iv. Common natural hazard damage observations to foundations

There are three main types of foundations seen in NZ homes — suspended timber floor with concrete perimeter foundation, suspended timber floor supported only on piles and slab on grade. See Appendix 1.a Overview in this Manual.

Suspended timber floor structures with concrete perimeter foundation:

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## Page 64 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



• Localised settlement of piles resulting in floor dislevelment



Figure 20 Loss of support resulting in settlement

• Piles tilting (rotation), settling or collapsing and no longer having contact with bearers, resulting in springy or structurally compromised floors



Figure 21 Pile detachment and rotation

- Localised dislevelment
- Lateral 'stretching' of unreinforced concrete perimeter foundation, resulting in structural damage
- Bulging of subfloor due to debris (inundation)
- Cracking



Figure 22 Cracked foundation

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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

## Page 65 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



• Cosmetic cracking to render finishes



Figure 23 Cracked render finish

Suspended timber floor supported only on piles:

- Pile foundation damage as listed above for suspended timber floor structures with concrete perimeter foundation
- Damage to subfloor bracing, e.g. failed bracing connections

Slab on grade:

- Cracking to a polished concrete floor resulting in cosmetic damage
- Cracking including vertical or horizontal displacement

#### UNCLASSIFIED















Page 66 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 





Figure 24 Cracking with vertical displacement

• Loss of support due to changes in ground condition, e.g. evacuation of land or liquefaction-induced ejecta

## v. Common natural hazard damage observations to specific chimney types

Un-reinforced masonry:

• Horizontal cracking or displacement



Figure 25 Chimney cracked at roofline with temporary supporting repairs

- Step-cracking below roofline
- Loss of chimney pot
- Collapse (partial or total)

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Page 67 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025





Figure 26 Total collapse of chimney with temporary waterproofing measures

• Impact damage to other insured property

Reinforced masonry:

- Step-cracking or displacement of blocks
- Loss of chimney pot
- Rotation (tilting) of chimney from superstructure
- Oscillation damage to other insured building elements

Steel flue:

• Buckling or crushing of flue



Figure 27 Disconnected flue with temporary waterproofing measures

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#### Page 68 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



- Corrosion due to chemical exposure, e.g. ash
- Disconnection of flue and/or fastenings (partial or complete)

Pre-cast concrete:

- Loss of chimney pot
- Rotation (tilting) of chimney from superstructure
- Cracking or displacement at construction joints



Figure 28 Pre-cast chimney

- Oscillation damage to other insured building elements
- Differential settlement of chimney from the superstructure

In addition to the above, for any cladding type over a timber or steel framed chimney, see Section 3.f.ii Common natural hazard damage observations to specific exterior cladding types in this Manual.

## vi. Common natural hazard damage observations to specific service infrastructure

Service infrastructure covered under the <u>NHI Act</u> is infrastructure (e.g. pipes, cables, wires, poles and drains) used to provide a service to the dwelling, an appurtenant structure for the dwelling, or to the insured person's land. Service means water supply, drainage, sewerage, gas, electricity, heating or telecommunications.

- Collapse
- Displacement (vertical or horizontal)
- Cracking
- Rupture
- Cable disruption

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Section 3 - Identifying natural hazard damage to a residential building

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### Page 69 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



• Inundation



Figure 29 Displacement of septic tank

See also Appendix 1 Building components and repair considerations in this Manual.

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Page 70 of 427 | NHC Assessment Manual - NHI Act



#### Identifying natural hazard damage to residential land 4.

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manuals – Residential Land – NHI Act, particularly Section 4 Is there Insured 'Residential Land'?. An overview of this section is provided below.

#### **Overview** a.

Cover for natural hazards is available to any residential building in New Zealand that has a current fire insurance contract or direct NHCover in place for the residential building and any associated residential land.

It is necessary to first identify whether there is an insured residential building (as defined under the NHI Act) to determine whether there is any NHCover. Where there is an insured residential building, you must then determine the associated insured residential land, and whether there is natural hazard damage to the residential land.

This section discusses visible land damage only. If the claim you are dealing with has non-visible land damage, i.e. ILV or IFV, you must escalate this to the appropriate NHC representative.

#### Is there insured 'residential land'? b.

The definition of 'residential land' draws a line between land that is insured under the NHI Act and land that is not.

In general terms, to find what is the insured residential land, it is necessary to identify:

- the relevant residential building.
- the insured person's land.

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- the insured land areas, which are:
  - the land that the residential building (excluding service infrastructure) is situated on;25
  - the land within 8 metres, in a horizontal line, of the residential building (excluding service infrastructure);<sup>26</sup>

Section 4 - Identifying natural hazard damage to residential land vero







<sup>&</sup>lt;sup>25</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 4.e What is 'land on which the building is situated'?.

<sup>&</sup>lt;sup>26</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 4.f What is 'land that is within 8 metres. of the residential building'?.

## Page 71 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



- the land within 60 metres (in a horizontal line) of the residential building (excluding service infrastructure) that is either the main access way to the residential building or land that supports the main access way.<sup>27</sup>
- any insured land structures, which are:
  - o all retaining walls and their support systems within 60 metres, in a horizontal line, of a residential building necessary for the support or protection of:
    - the residential building; or
    - one or more insured land areas (as described above).

This can include retaining walls and their support systems that are situated outside the insured person's land where:

- the other retaining wall criteria are met; and
- the insured person has an insurable interest in the retaining wall.
- all bridges<sup>28</sup> and culverts<sup>29</sup> that are on or in land that is:
  - an insured land area (as described above); or
  - outside the insured person's land but is otherwise land of the kind referred to as the 'insured land areas', and which the insured person has an insurable interest in.

When a damaged land structure is outside the insured person's land, the insured person must have an insurable interest in that land structure for it to be covered.

<u>Schedule 2 of the NHI Act</u> lists property that is excluded property or is only covered in limited circumstances.<sup>30</sup> This schedule has the effect of excluding some property from cover that may otherwise have been insured as components of residential land.

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Section 4 - Identifying natural hazard damage to residential land vero

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<sup>&</sup>lt;sup>27</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 4.g What access way (or part of an access way) is 'residential land'?.

<sup>&</sup>lt;sup>28</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 4.i What bridges are 'residential land'?.

<sup>&</sup>lt;sup>29</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.j What culverts are 'residential</u> land'?.

<sup>&</sup>lt;sup>30</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.k What property is not insured by</u> virtue of Schedule 2 of the NHI Act?.

## Page 72 of 427 | NHC Assessment Manual - NHI Act

## Version as at 13/5/2025



#### i. Residential land may include common land, joint land and shared land

If there is more than one residential building lawfully situated on the insured person's land:

- the insured residential land is determined by reference to each residential building;
- the residential land may include shared land.
- a. Shared land

Shared land is any part of the residential land that a person who is not the insured person has an insurable interest in (see NHC Claims Manual - Residential Land - NHI Act, Section 3.c.i Who is an 'insured person'?).

For more information on shared land, see <u>NHC Claims Manual – Residential Land</u>, Section 4.b.v Residential land may include 'common land', 'joint land' and 'shared land', and Section 8 Assessing damage across multiple properties in this Manual.

If there is a mixed-use building, the residential land may include common land or joint land.

b. Common land

Common land is any part of the residential land:

- that is for the use or benefit of the owners or other occupants of all premises in the mixed-use building, and
- that all of the owners have an insurable interest in.
- c. Joint land

Joint land is any part of the residential land:

- that is for the use or benefit of the owners or other occupants of some, but not all, premises in the mixed-use building, and
- that those owners have an insurable interest in.

For more information on common land and joint land, see <u>NHC Claims Manual –</u> Residential Land – NHI Act, Section 4.b.v, and Section 8 Assessing damage across multiple properties in this Manual.

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Section 4 - Identifying natural hazard damage to residential land vero





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Page 73 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# c. Distinguishing natural hazard damage from pre-existing conditions

To be covered under the <u>NHI Act</u>, damage must be the direct result of a natural hazard as defined in the NHI Act.

When identifying natural hazard damage, you must also consider any pre-existing conditions,<sup>31</sup> including any damage not caused by a natural hazard.

If the cause of damage is not clear, engage appropriate experts<sup>5</sup> to provide advice.

# d. What are the steps in the assessment?

In general terms, there are seven steps involved in assessing a residential land claim. You must assess:

- the extent of the insured person's land (see Section 4.d.i
- Assessing the extent of the insured person's land in this Manual);
- the type and extent of the land damage to the insured person's land (see Section 4.d.ii Assessing the type and extent of the natural hazard damage to the land area and land structures on the insured person's land in this Manual);
- the extent of the insured residential land (see Section 4.d.iii Assessing the extent of the insured residential land in this Manual);
- the area of insured residential land that is lost or damaged (see Section 4.d.iv Assessing the area of land that is lost or damaged in this Manual);
- the conceptual remediation strategy for damage to the insured residential land (see Appendix 2 Land components and repair considerations in this Manual);
- the cost of repair for damage to the insured residential land (see <u>NHC Claims</u> <u>Manual – Residential Land – NHI Act, Section 7.A.c.v Assessing the cost of repair</u>); and
- the land values related to the land cover cap, which include the assessed market value of the damaged insured land areas (or other specified land areas) and costing the depreciated value of the damaged insured land structures (see <u>NHC</u> <u>Claims Manual Residential Land NHI Act, Section 7.A.d Assessing the relevant land values</u>).

More details on each of these seven steps are set out below. In most cases, you will require specialist advice to complete the steps in the assessment – see Section 7 Engaging experts in this Manual.

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Section 4 – Identifying natural hazard damage to residential land







<sup>&</sup>lt;sup>31</sup> See Section 6 Pre-existing conditions.

Page 74 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# i. Assessing the extent of the insured person's land

As a first step, you must identify the extent of the insured person's land. <u>NHC Claims</u> <u>Manual – Residential Land – NHI Act, Section 4.d What is the insured person's land?</u> sets out in detail how to identify the insured person's land.

In general, the insured person's land consists of all the land within the boundaries shown on the record of title (RT) for that property. However, land outside those boundaries may also form part of the insured person's land in two situations<sup>32</sup> as follows:

- where the insured person has an estate or interest in land that is:
  - $\circ~$  contiguous with the land within the RT;  $^{\rm 33}$  and
  - used or intended to be used with the land within the RT as a single residential property;
- where an estate or interest in land is for the benefit of:
  - $\circ~$  the land within the RT; or
  - land that is contiguous with the land within the RT and is used or intended to be used with the land within the RT as a single residential property.

In rare situations, land within a single RT should be treated as two (or more) insured persons' lands under the NHI Act.

# ii. Assessing the type and extent of the natural hazard damage to the land area and land structures on the insured person's land

Next, you must identify the type and extent of natural hazard damage to the land areas and land structures (insured and uninsured) within the insured person's land.

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Section 4 – Identifying natural hazard damage to residential land









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<sup>&</sup>lt;sup>32</sup> For more information, see the <u>NHC Claims Manual – Residential Land – NHI Act</u>, <u>Section 4.d.i Is the</u> <u>insured person</u>'s land always the same as the area of land shown within the RT?</u>.

<sup>&</sup>lt;sup>33</sup> For more information, see <u>section 16 of the NHI Act</u>.

#### Page 75 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



a. What is the natural hazard damage?

The residential land has incurred natural hazard damage where there is:

- physical loss or damage to the residential land occurring:
  - o as the direct result of a natural hazard; and/or
  - from measures taken under proper authority to mitigate the consequences of a natural hazard; and/or
- imminent damage.

#### Section 24(1),NHI Act

In each case, there is land damage where:

- the residential land has been materially physically changed as a direct result of a natural hazard; and
- that change has adversely affected the utility or amenity value of the land.

Material physical change includes change that is 'more-than-negligible', i.e. something beyond the minor, inconsequential or immaterial.

b. Identifying damage to both insured and uninsured land

At this stage of the assessment, you should identify and record damage to all of the land area and land structures on the insured person's land (where appropriate). This means that the assessment includes damage to both:

- the insured land area and the insured land structures; and
- the uninsured land area and uninsured land structures on the insured person's land.

Only the insured land areas and the insured land structures of the residential land are insured under the NHI Act. But it is useful to also have information about any damage to the uninsured land areas and uninsured land structures within the insured person's land. That information may (where relevant) inform the assessment of the current or a future NHCover claim related to the property.

Sometimes it is not appropriate to identify and record damage to the entirety of the insured person's land. For example, on a large lifestyle property or farm it may be impractical. In these cases, you may limit your assessment to a smaller area of land. You must clearly define and record this area as part of your assessment, and include (as a minimum) any damage to the land area and land structures within 60 metres of the residential building.

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Section 4 – Identifying natural hazard damage to residential land

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#### Page 76 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



#### c. Some typical types of land damage

Typical types of land damage from different natural hazards include (but are not limited to) those identified in the table below.

## Table 2: Typical types of land damage

|                  |  | NATURAL HAZARD TYPE   |            |           |                      |                          |         |        |        |                           |
|------------------|--|---|------------|-----------|----------------------|--------------------------|---------|--------|--------|---------------------------|
|                  |  |   | Earthquake | Landslide | Volcanic<br>activity | Hydrothermal<br>activity | Tsunami | Storm* | Flood* | Natural<br>hazard<br>fire |
| LAND DAMAGE TYPE | pueŋ   | Evacuation<br>(including<br>scouring)                       | Х          | х         | Х                    | Х                        | Х       | Х      | Х      |                           |
|                  |  | Inundation<br>(falling, sliding,<br>flowing or<br>ejection) | Х          | Х         | Х                    | х                        | х       | Х      | х      | х                         |
|                  |  | Cracking<br>(lateral<br>spreading)                          | х          | х         | Х                    | Х                        |         |        |        |                           |
|                  |  | Cracking<br>(oscillation<br>movement)                       | Х          |           |                      |                          |         |        |        |                           |
|                  |  | Undulating<br>land  | х          | Х         | Х                    |                          |         |        |        |                           |
|                  |  | Local ponding   | х          |           | х                    |                          |         |        |        |                           |
|                  |  | Local<br>settlement   | х          | х         | х                    |                          |         |        |        |                           |
|                  |  | Groundwater<br>springs                                      | х          | Х         | Х                    |                          | х       |        |        |                           |
|                  |  | Contamination   | х          | Х         | х                    | х                        | х       | х      | х      |                           |
|                  | Land structures<br>(bridges, culverts, retaining<br>walls) | Impact  | х          | х         | х                    | Х                        | х       | х      | х      |                           |
|                  |  | Cracking  | х          | х         | х                    | Х                        | х       | х      | х      |                           |
|                  |  | Rotation  | х          | х         | х                    | х                        | х       |        | х      |                           |
|                  |  | Collapse  | х          | х         | х                    | Х                        | х       |        | х      |                           |
|                  |  | Washed away   |            |           | Х                    |                          | Х       |        | Х      |                           |

\* Residential land only

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#### Page 77 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



### d. Imminent damage

In assessing any imminent damage, the engineer engaged (or other assessor) should provide their best estimate of the further natural hazard damage that is more likely than not to occur to the residential land (if any):

- as a direct result of the original natural hazard; and
- during the 12-month period following that natural hazard.<sup>34</sup>

That assessment should be based on the following assumptions:

- normal weather patterns with no extraordinary events; and
- no remediation or mitigation of the original natural hazard damage.

For further details, see Section 5 Imminent damage in this Manual.

e. As at what date must the damage be assessed?

The damage must generally be assessed as at the date that the natural hazard occurred, not as at the date of the assessment. This includes assessing:

- the damage that has occurred; and
- any imminent damage.

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For example, the customer may have started repairs (such as debris removal) before the damage assessment. But in this case, the damage must nevertheless be assessed as at the date of natural hazard rather than at the date of the assessment.

f. Situation where there is both residential land and residential building damage

Sometimes (particularly for a landslide), the natural hazard damage to the residential land may also affect the residential building on the insured person's land. For example, this may be the case where the land damage has resulted in imminent damage to the residential building.

In this situation, you must consider whether and how the decision to settle the residential land claim will affect settlement of the residential building claim (see NHC Claims Manual – Residential Land – NHI Act, Section 7.A.c.iii What is reinstatement cost? and NHC Claims Manual – Residential Buildings – NHI Act, Section 6.A.c.viii How does 'replacement cost' apply with respect to imminent damage?).

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Section 4 - Identifying natural hazard damage to residential land vero







<sup>&</sup>lt;sup>34</sup> See Section 2.c.ii.d Physical loss or damage that is imminent damage in this Manual.

#### Page 78 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



g. Recording the type and extent of the natural hazard damage

The type and extent of the natural hazard damage to the land areas and land structures on the insured person's land should be recorded using a land sketch<sup>35</sup> and accompanying report.

# iii. Assessing the extent of the insured residential land

You must identify the extent of the insured residential land. We only cover natural hazard damage to insured residential land.

a. How is the insured residential land identified?

Section 4.b Is there insured 'residential land'? in this Manual sets out in detail how to identify the insured residential land. In summary, the insured residential land is defined under the NHI Act as:

- the insured land areas; and
- any insured land structures.

Section 4.c Distinguishing natural hazard damage from pre-existing conditions in this Manual sets out details on assessing the extent of the residential land in different situations.

#### Section 17, NHI Act

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b. What if there is doubt about whether any particular property is insured residential land?

Sometimes there may be doubt whether a particular land area or land structure comes within the definition of the insured residential land under the NHI Act. For example, there may be doubt about:

- whether a specific land area supports the main access way<sup>36</sup> of the property; or
- whether a particular wall within or outside the insured person's land is an insured retaining wall.37

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Section 4 - Identifying natural hazard damage to residential land vero

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<sup>&</sup>lt;sup>35</sup> For more details about the land sketch, see Section 13.d.iii Site assessment documentation standards.

<sup>&</sup>lt;sup>36</sup> See NHC Claims Manual – Residential Land – NHI Act, Section 4.g What access way (or part of an access way) is 'residential land'?.

<sup>&</sup>lt;sup>37</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.h What retaining walls are</u> 'residential land'?.

#### Page 79 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



If you doubt that a particular land area or land structure comes within the residential land at the property, you should:

- record the exact location and footprint of that particular land area or land structure;
- obtain photographs of the damage situation; and
- note in writing why that particular land area or land structure is or is not part of the residential land.

In the first instance, you should refer that information to a relevant expert to see whether they can resolve the doubt. For example, you may engage a geotechnical engineer to provide advice about whether a specific land area supports the main access way. If, after obtaining the relevant expert's advice, you still have doubts about whether the land area or land structure is insured residential land, you should escalate the matter to the appropriate NHC representative.

c. Recording the type and extent of the insured residential land

You should record the extent of the insured residential land, and any particular land areas or land structures that are in doubt) using a land sketch<sup>38</sup> and accompanying report.

# iv. Assessing the area of land that is lost or damaged

You must identify the insured land areas and land structures that are actually lost or damaged.

Two key components in calculating the land cover cap are:

- the assessed market value of the insured land areas that are lost or damaged
- the undepreciated value of any insured land structures that are damaged.

The insured residential land that is actually lost or damaged includes any land area and/or land structure where physical loss or damage is, in our opinion, imminent<sup>39</sup> as the direct result of the natural hazard that has occurred.

You should identify the residential land that has actually been lost or damaged early in the assessment process.

For instructions on preparing a land sketch, see Section 13.d.iii Site assessment documentation standards in this Manual.

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Section 4 - Identifying natural hazard damage to residential land









<sup>&</sup>lt;sup>38</sup> For more details about the land sketch, see Section 13.d.iii Site assessment documentation standards.

<sup>&</sup>lt;sup>39</sup> See Section 2.c.vi What is 'imminent damage'?.

#### Page 80 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For an example of a land sketch, see Appendix 4 Documentation examples in this Manual.

For further information about how natural hazard damage to land is assessed, see <u>NHC Claims Manual – Residential Land – NHI Act, Section 7 How is the natural hazard</u> <u>damage assessed?</u>.

# e. Indicators of the extent of damage

It is important when you are assessing natural hazard damage that you can identify and understand different types of land damage and the actions that you need to take based on these.

We generally consider damaged land to fall into three categories – minor, moderate and severe

Minor damage:

- Minor damage only affects the residential land, not the residential building.
- It generally does not require an expert to be engaged for further quantification.
- The damage generally does not affect a land structure.
- It does not include landslides.

Moderate damage:

- The damage affecting the residential land is likely to also affect the residential building.
- It may require an expert for further quantification and remediation strategy.
- The claim may involve damage to a land structure.

Severe damage:

- Severe damage almost always affects the residential building.
- It will require an expert for further quantification and remediation strategy.
- Land structures may have suffered significant damage.
- Sometimes, land with severe damage makes the property unsafe to access and/or occupy<sup>40</sup> and it will remain so until substantive repairs are carried out.
- Severe damage may result in total loss of the insured land.

Imminent damage<sup>6</sup> may exist in any of the three categories of damage, but it is more likely in moderate or severe damage.

Identifying which category of damage the property you are assessing falls into helps you determine and prioritise the appropriate next steps in your assessment. In any of

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Section 4 – Identifying natural hazard damage to residential land

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<sup>&</sup>lt;sup>40</sup> See Section 9 Unsafe properties.

#### Page 81 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



the three categories, an element of another category may be present. Where there are multiple categories of damage, you should always address the most significant damage first.

# f. Features of natural hazard damage to residential land

Some common features of natural hazard damage to residential land are described below. These examples are provided by way of guidance and reference only, and are not intended to be exhaustive.

# i. Natural hazard land damage

The most common types of natural hazard land damage are as follows. For further examples, see Appendix 4 Case studies.

## a. Evacuation

Evacuation means the displacement of land either by falling, sliding, flowing or movement of land as a direct result of a natural hazard as defined by the <u>NHI Act</u>. Examples include land lost through landslide, explosivity (hydrothermal), scouring due to high-speed water flow and pressure from a tsunami, and crater damage from volcanic ballistics.



Figure 30 Evacuation due to landslide

## **b.** Inundation

Inundation is a phenomenon where the existing land in a location has not moved or been damaged itself but has been covered with debris that has travelled from another location. Examples include liquefaction silt, building debris not arising from the insured residential building, volcanic ash or lava flows, silt debris from flood or tsunami action, and fallen trees from storms or flood.

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Section 4 – Identifying natural hazard damage to residential land

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Page 82 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025





Figure 31 Silt inundation due to flooding

c. Cracking (lateral spreading)

Cracking means the spreading or cracking of land induced by stressors on the land that occur in earthquake, landslide, and hydrothermal events.



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Section 4 – Identifying natural hazard damage to residential land vero







Page 83 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



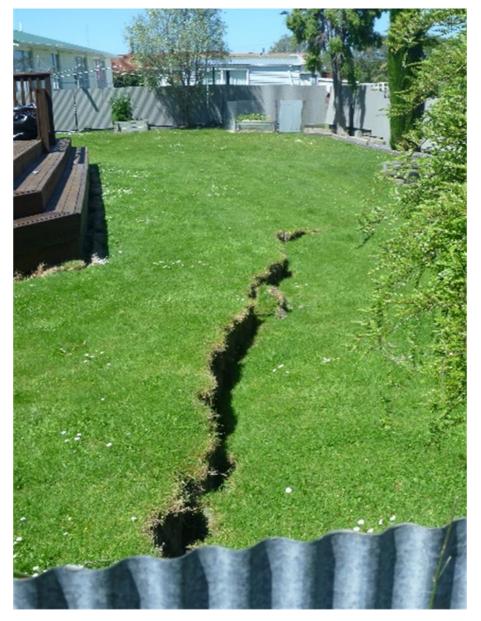


Figure 32 Cracking (lateral spreading) due to earthquake

d. Cracking (oscillation movement)

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Cracks to land can result from both lateral spreading (see above) and oscillation (backwards and forwards movement of land and buildings during earthquake shaking). Cracks resulting from oscillation are typically minor and isolated.



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Section 4 - Identifying natural hazard damage to residential land vero





Page 84 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



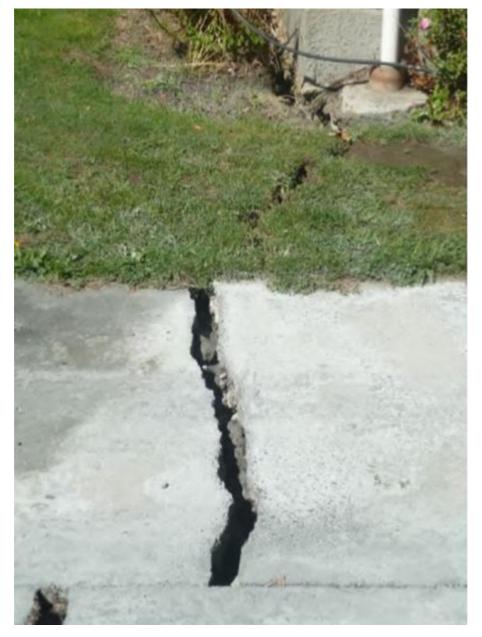


Figure 33 Cracking (oscillation movement of dwelling) due to earthquake

#### e. Undulating land

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Undulating land is caused by the uneven settlement of the ground surface as a result of the ejection of sand and silt, and, to a lesser extent, the uneven settlement of liquefied soils below ground. This can also be caused by horizontal and vertical displacement of soil and/or rock as a result of a landslide.

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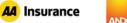
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Section 4 - Identifying natural hazard damage to residential land

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Page 85 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 34 Undulating land due to earthquake

f. Localised ponding

Localised settlement or lowering of the land resulting in water forming ponds on the ground surface for extended periods in locations where it did not pond before the earthquake.



Figure 35 Localised ponding due to earthquake

#### g. Localised settlement

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This can occur in areas affected by earthquake where one area of residential land settled more than the adjacent land. Horizontal and vertical movement of soil and/or rock during a landslide can also result in localised settlement of the ground surface.





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Section 4 - Identifying natural hazard damage to residential land vero





Page 86 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 36 Localised settlement due to rotated retaining wall (obscured)

#### h. Groundwater springs

New groundwater springs can emerge and start flowing over the ground surface where this was not happening before the natural hazard occurred. The spring usually occurs at a specific location on residential land. In almost all cases, you will require a geotechnical engineer to assess whether a groundwater spring is the direct result of a natural hazard.



Figure 37 Inundation from groundwater spring due to earthquake

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Section 4 - Identifying natural hazard damage to residential land vero









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#### Page 87 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



i. Contaminated land that is the direct result of a natural hazard occurring

If residential land is contaminated as a direct result of a natural hazard (and this contamination is not temporary), this may be considered natural hazard damage.

An example of this type of contamination is residential land being inundated by debris containing asbestos.

You must treat this contamination as natural hazard damage.

In these situations, you should typically engage an appropriate expert (in contaminated land) to carry out a site-specific assessment and provide an appropriate remediation strategy.

See also Section 1.h.v Health and safety in this Manual.

j. Temporarily contaminated land

Sometimes a natural hazard causes residential land to become temporarily contaminated (for example, sewage seeps to the surface of the land). This contamination often breaks down to safe levels over a short period (for example, because the bacteria in the sewage break down in the sunshine or normal rainfall).

In these situations, the land has 'self-repaired' (or will in the short term), and you do not need to cost a repair unless there are other types of land damage to the insured land.

k. Potentially contaminated land due to a pre-existing condition

'Potentially contaminated land' refers to residential land that is identified on a local or regional authority register as potentially being contaminated from previous land use. In other words, the contamination is not the result of a natural hazard.

An example is residential land on a <u>Hazardous Activities and Industries List (HAIL)</u> site that is listed on the Environment Canterbury (ECan) Listed Land Use Register <u>(LLUR)</u>.

You must meet all health and safety requirements in connection with any visit to potentially contaminated land.

For detailed guidance about pre-existing conditions, see Section 6 Pre-existing conditions in this Manual.

For more details on common remediation strategies, see Appendix 2 Land components and repair considerations in this Manual.

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Section 4 - Identifying natural hazard damage to residential land vero

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#### Page 88 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# ii. Natural hazard damage to land structures (retaining walls, bridges and culverts)

The most common types of natural hazard damage to land structures are as follows. For further examples, see Appendix 4 Case studies in this Manual.

a. Impact damage

Impact damage is damage arising from debris moved by the natural hazard impacting the land structure. Examples of this damage include rockfall from a landslide impacting a bridge, volcanic ejecta impacting a land structure, and debris in floodwaters impacting land structures.



Figure 38 Impact damage to a bridge abutment from flood debris

b. Cracking

Cracking to a land structure is the physical manifestation of cracks to the materials that make up a structure. Examples include cracking to the footings of a bridge placed under pressure by flood waters, earthquake cracking to a concrete retaining wall caused by shaking.

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Section 4 – Identifying natural hazard damage to residential land



NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 89 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 39 Retaining wall that has cracked due to earthquake

c. Rotation

Rotation of a land structure refers to a loss of structural integrity as a result of the structural members rotating beyond their original configuration. One example of this is a retaining wall that has rotated forwards as a result of land movement (landslide) upslope putting pressure on the wall.



Figure 40 Timber retaining wall that has rotated due to land movement during a heavy rain event

d. Collapse

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Collapse of a land structure is the total failure of a land structure. One example of this is a retaining wall that has failed structurally in an earthquake and collapsed.





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Section 4 – Identifying natural hazard damage to residential land

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Page 90 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 41 Timber crib retaining wall that has collapsed due to earthquake

e. Washed away

This refers to when a large volume of water washes away a structure, e.g. a bridge. It can apply to all or part of a structure, e.g. when some of a bridge's structural members wash away in a flood.



Figure 42 Stacked stone retaining wall washed away by flood waters

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Section 4 - Identifying natural hazard damage to residential land vero









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Page 91 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# 5. Imminent damage

# a. Overview

NHCover insures residential buildings and land against 'natural hazard damage',<sup>41</sup> which includes both actual and imminent damage.

The NHI Act defines 'imminent damage' as follows:

(3) Physical loss or damage to a residential building or residential land that has not yet occurred is **imminent damage** if—

- (a) a natural hazard has occurred (**event 1**); and
- (b) the Commission is of the opinion that, as a direct result of event 1, the loss or damage is more likely than not to occur within 12 months after event 1 first occurred.

Section 24(3) NHI Act, 'imminent damage'

Imminent damage is also commonly referred to as 'imminent risk' or 'IR'. We have used the term 'imminent damage' within this Manual.

For there to be imminent damage:

- there must be the potential for 'physical loss or damage'<sup>42</sup> to property;
- the potential physical loss or damage must be 'a direct result'<sup>43</sup> of a 'natural hazard'<sup>44</sup>; and
- the potential physical loss or damage must be 'more likely than not to occur within 12 months' after the natural hazard occurred. This means the 12 months:
  - starts from when the natural hazard, which the imminent damage is a direct result of, occurred;
  - o ends 12 months after that date; and
  - o does not restart if that imminent damage is realised (meaning it occurs).

To determine whether there is any imminent damage, and its extent, you should typically engage an expert for advice (e.g. geotechnical engineer). The person determining that there is imminent damage must be:

• sufficiently experienced, qualified and skilled for the purpose

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Section 5 – Imminent damage

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<sup>&</sup>lt;sup>41</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 5 Is there 'natural hazard</u> <u>damage'?</u>

<sup>&</sup>lt;sup>42</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 5.d Is there 'physical loss or</u> <u>damage'?</u>

<sup>&</sup>lt;sup>43</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 5.e Is the physical loss or damage</u> <u>as a 'direct result' of a natural hazard</u>.

<sup>&</sup>lt;sup>44</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 5.b What is a 'natural hazard'</u>.

#### Page 92 of 427 | NHC Assessment Manual – NHI Act



• appropriately trained.

Engineers or other relevant experts must provide their best estimate of any further natural hazard damage (imminent damage) they consider more likely than not to occur at the insured property:

- as a direct result of the natural hazard that the imminent damage relates to;
- during the 12-month period after that natural hazard.

The person determining whether there is imminent damage should assume there will be normal weather conditions during the 12-month period (meaning no extraordinary conditions) and no remediation or mitigation of the original natural hazard damage.

Where further damage has occurred during extraordinary weather conditions (and within the imminent damage period), the person determining whether there is imminent damage must consider what property it affects. Where the further damage affects any:

- residential land and/or building that was assessed as having imminent damage under a previous claim, the damage must be included in that claim. This ensures that damage is attributed to the event it relates to, and that the same damage is not paid for twice.
- previously undamaged residential land and/or building, this is not considered to be imminent damage. The further damage may be covered under the NHI Act as a separate natural hazard event, where the relevant requirements are met. The customer should be advised to make a new claim for this further damage.<sup>45</sup>

# b. What the NHI Act covers

If it is determined that there is imminent damage, you must include it in the relevant claim entitlement, i.e. for residential building or residential land. You must factor in the cost to either:

- prevent the imminent damage from occurring (the mitigation cost); or
- repair the imminent damage once it has occurred (the future replacement cost for residential building claims or the future reinstatement cost for residential land claims).<sup>46</sup>

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Section 5 – Imminent damage

<sup>&</sup>lt;sup>45</sup> For further information on damage occurring as a result of more than one natural hazard, see <u>NHC</u> <u>Claims Manual – Residential Buildings – NHI Act, section 3.f.iii Situation where there is more than</u> <u>one natural hazard in a 48-hour period or 7-day period</u>.

<sup>&</sup>lt;sup>46</sup> For examples, see the <u>Complex Land Examples Guide – NHI Act</u>.

## Page 93 of 427 | NHC Assessment Manual – NHI Act



The above two methods can also be used in combination for one claim.<sup>47</sup>

Remediation work to prevent imminent damage may include:

- containing the threat, e.g. building a retaining wall to contain a landslide;
- removing the threat, e.g. removing a dislodged boulder, or removing a fallen tree threatening the main access way;
- relocating threatened property, e.g. moving a dwelling threatened by a landslide.

NHCover only pays or contributes to prevention costs that are necessary and actual. Imminent damage may also be settled on a valuation basis.

# c. Limitations

Certain types of damage linked to the original natural hazard are not imminent damage, e.g.:

- After an earthquake, if an aftershock occurring outside the 'damage period'<sup>48</sup> causes new damage (not extended damage),<sup>49</sup> this is not imminent damage under the claim for the original earthquake. However, the NHI Act may cover it as a separate natural hazard event, where the relevant requirements are met. The customer should be advised to lodge a new claim for this damage.
- Natural hazard damage occurring after the 'initial damage'<sup>49</sup> but within the damage period is not imminent damage. This further damage<sup>49</sup> is also covered under the original claim.

# d. Other considerations

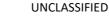
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Imminent damage only relates to residential land and residential buildings that are covered by the <u>NHI Act</u>. It does not include imminent risk to life or risk to people's safety, which is the local TA's responsibility.

Anyone assessing an NHCover claim is responsible for notifying the TA (and other appropriate people as set out in the <u>Dangerous and Insanitary Buildings and Land</u><u>Policy</u>) if they are concerned that a building or land may be dangerous or insanitary and the health and safety of people are potentially at risk. The TA will then carry out its own investigation to decide what action it will take, if any. We (and our agents)

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Section 5 – Imminent damage

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<sup>&</sup>lt;sup>47</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 8.d.ii Imminent damage</u>.

<sup>&</sup>lt;sup>48</sup> The 'damage period' is 0 to 48 hours for all natural hazard types except volcanic activity and natural hazard fire, and 0 to 7 days for volcanic activity and natural hazard fire.

<sup>&</sup>lt;sup>49</sup> For the definitions of 'initial damage', 'second damage' and 'extended damage, see <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, section 3.f.iii Situation where there is more than one</u> <u>natural hazard in a 48-hour period or 7-day period</u>.

#### Page 94 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



cannot make any decisions about building safety for occupants. See Section 9 Unsafe properties in this Manual.

# e. How to identify loss

The NHI Act does not cover any loss that is not physical loss or damage or imminent damage as the direct result of a natural hazard. For example:

# i. Economic loss

Loss or damage in the context of the <u>NHI Act</u> means loss or damage to the physical materials or structure of the insured property. Economic loss, e.g. depriving a person of the use of their home because of the threat of rockfall, is not a 'physical loss... to the property'. The NHI Act does not cover economic loss.<sup>50</sup>

# ii. Consequential loss

The NHI Act states that 'consequential loss' includes loss by theft, vandalism, loss of profits, business interruption, temporary accommodation costs and loss of intangible property. This list is not exhaustive.

The NHI Act does not cover any 'consequential loss'.

## Section 28, NHI Act

For a more detailed discussion of consequential loss, see Section 2.e Consequential loss in this Manual.

# f. Calculating imminent damage settlement

Repair costings for imminent damage to the residential land and/or residential building must include the cost to either:

- prevent the imminent damage from occurring, where possible (the mitigation cost); or
- repair the imminent damage once it has occurred (the future replacement cost for residential building claims or the future reinstatement cost for residential land claims).

When determining the cost of remediation for imminent damage to the residential building or residential land, either one or a combination of the above can be used as the claims manager considers appropriate.

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Section 5 – Imminent damage

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<sup>&</sup>lt;sup>50</sup> See Section 2.c.iii.a Loss or damage must be physical.

## Page 95 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For further information on using either one, or a combination of the above options, see:

- <u>NHC Claims Manual Residential Buildings NHI Act, Section 6.A.c.viii How does</u> <u>'replacement cost' apply with respect to imminent damage?;</u>
- <u>NHC Claims Manual Residential Land NHI Act, Section 7.A.c.ii What method is</u> <u>used to quantify the actual loss suffered?</u>; and
- the Imminent Damage Guide NHI Act.

NHCover only reimburses necessary and actual costs (up to the cap<sup>51</sup> for the overall claim less excess). Ensure that any proposed remedy is lawful and practical, and document it fully.

# i. Complex scenarios

When there is physical loss or damage and imminent damage affecting multiple properties (land or building), with different owners and/or insurers, additional considerations apply. See Section 8 Assessing damage across multiple properties in this Manual.

In certain circumstances, the entire NHCover claim (for land and building) is settled based on the cost to repair the land damage and/or remove the imminent damage risk to the land, even though the cost of this work exceeds the land cover cap. This is because the work required to repair the damaged residential land and/or to remove the imminent damage risk to the land will also remove the imminent damage risk to the residential building. Because the work is being carried out on the land, the cost of these works should be allocated first to the land claim as the reinstatement cost (up to the land cover cap). If the land claim reaches the land cover cap, the remaining portion (if any) of the cost of these works can be allocated to the building claim as the replacement cost, but only to the extent of the imminent damage risk to the building (up to the building cover cap)<sup>52</sup>. See Complex Land Examples Guide – NHI Act, example <u>5a</u> and <u>5b</u>.

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Section 5 – Imminent damage

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<sup>&</sup>lt;sup>51</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 8.e What is the maximum amount</u> (the building cover cap) that can be paid for a residential building claim?/<u>NHC Claims Manual –</u> <u>Residential Land – NHI Act, Section 9e What is the maximum amount (the land cover cap) that can</u> <u>be paid for a residential land claim?</u>.

<sup>&</sup>lt;sup>52</sup> See <u>Section 34(7), NHI Act</u> and <u>regulation 10, NHI Regulations</u>.

## Page 96 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



This is more likely to occur when the:

- land remediation cost is low (e.g. there is no evacuation of insured land and/or no costly retaining wall remediation strategy);
- replacement cost for actual damage to the residential building is nil or low;
- future replacement cost for imminent damage to the residential building is high.

In difficult cases, you should escalate to the appropriate NHC representative.

For more information on settling NHCover land claims, see the:

- <u>Calculating Settlement Guide NHI Act</u>; and
- Complex Land Examples Guide NHI Act.





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Page 97 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



#### **Pre-existing conditions** 6.

#### What are pre-existing conditions? a.

Cover for natural hazards is available for any residential building in New Zealand that has a current fire insurance contract<sup>53</sup> or direct NHCover in place. There is also cover for associated residential land.<sup>54</sup>

After a natural hazard has occurred, you must identify first whether there is an insured residential building,<sup>55</sup> and if so, whether there is natural hazard damage<sup>56</sup> to the residential building and/or residential land.

To be covered by the NHI Act, damage must be the direct result<sup>57</sup> of a natural hazard.<sup>58</sup> Therefore, NHCover may not be available for pre-existing conditions.

Common types of pre-existing conditions include:

- damage from an earlier natural hazard (whether there is a valid claim or not); •
- design and/or construction-related matters;
- damage not covered by the <u>NHI Act</u>;
- damage due to 'age, wear and tear';
- existing land conditions.

Where damage is not covered by the NHI Act, you should consider whether it is covered by a private insurance policy. Where damage is covered by both the NHI Act and a private insurance policy, the NHI Act typically covers the first loss, so you should consider the coverage under the NHI Act first. In some cases, damage may not be covered by either the NHI Act or a private insurance policy.

#### Distinguishing pre-existing conditions from natural hazard b. damage

When identifying natural hazard damage, you must consider any pre-existing conditions that may affect the insured property being assessed. In some cases, there

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Section 6 - Pre-existing conditions

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<sup>&</sup>lt;sup>53</sup> See <u>NHC Claims Manual – Residential Building – NHI Act, Section 3.h Was there a 'fire insurance</u> contract' or direct NHCover over the property concerned in force at the relevant time?.

<sup>&</sup>lt;sup>54</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 3.h Was there a 'fire insurance</u> contract' or direct NHCover over the property concerned in force at the relevant time?.

<sup>&</sup>lt;sup>55</sup> See Section 3.b Is there an insured 'residential building'? in this Manual.

<sup>&</sup>lt;sup>56</sup> See Section 2.c Is there natural hazard damage? in this Manual.

<sup>&</sup>lt;sup>57</sup> See Section 2.c.iv Is the physical loss or damage 'a direct result' of a natural hazard? in this Manual.

<sup>&</sup>lt;sup>58</sup> See Section 2.c.i What is a 'natural hazard'? in this Manual.

#### Page 98 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



may be grounds to decline a claim in part or in full.<sup>59</sup>

If it is not clear whether the damage is the direct result of the natural hazard that relates to the current claim, engage appropriate experts<sup>5</sup> to provide advice.

The customer needs to prove, on the balance of probabilities, the loss they believe they have sustained is the result of a natural hazard occurring.

In all cases where pre-existing conditions are identified, you must record a full and clear explanation of the findings.<sup>60</sup>

# c. Exacerbation of pre-existing damage

The NHI Act only covers damage that has occurred as a direct result of a natural hazard, so NHCover is not available for any other causes, e.g. pre-existing conditions.

When determining whether natural hazard damage has occurred,<sup>61</sup> you should consider whether:

- there has been a material physical change to the insured property;
- the physical change is the direct result<sup>62</sup> of a natural hazard that has occurred; and
- the physical change has adversely affected the utility of the insured property.

If there is pre-existing damage, consider whether there is any new observable damage that has resulted in a material physical change over and above the preexisting damage. Material physical change includes change that is 'more-thannegligible', i.e. something beyond the minor, inconsequential or immaterial. If the pre-existing damage is such that minor additional damage makes no material change to the utility (functionality or amenity) of the property, it is unlikely to be considered natural hazard damage under the <u>NHI Act</u>.

# d. The amount of the natural hazard damage covered

The amount of the natural hazard damage to a residential building is measured on the basis of replacement cost.<sup>63</sup>

The NHI Act insures residential land against natural hazards on an indemnity basis. Unlike residential buildings, residential land is not insured against natural hazard

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<sup>&</sup>lt;sup>59</sup> See Section 2.g Grounds for declining an NHCover claim in this Manual.

<sup>&</sup>lt;sup>60</sup> See Section 13 Assessment documentation standards in this Manual.

<sup>&</sup>lt;sup>61</sup> See Section 2.c Is there natural hazard damage? in this Manual.

<sup>&</sup>lt;sup>62</sup> See Section 2.c.iv Is the physical loss or damage 'a direct result' of a natural hazard? in this Manual.

<sup>&</sup>lt;sup>63</sup> See Section 2.d.i.a What is the definition of 'replacement cost'? in this Manual.

## Page 99 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



damage for its replacement cost. The amount of the NHCover for residential land is subject to a maximum amount of insurance referred to as the land cover cap.<sup>64</sup>

# e. When pre-existing conditions are included in the repair of natural hazard damage

In general, NHC repairs should only address the natural hazard damage, i.e. not damage from any pre-existing conditions. However, pre-existing conditions may be included in the repair of natural hazard damage where:

- elements with pre-existing conditions, which have not been damaged by a natural hazard, will be damaged and need to be repaired as the result of a lawful and practicable repair of the natural hazard damage;
- a natural hazard has made a pre-existing condition materially worse and it is not possible, practicable, or lawful to repair the natural hazard damage only, i.e. separately to any damage from pre-existing conditions.

To determine whether the pre-existing condition has been made 'materially worse', consider the specific facts, using judgement and common sense, and having regard for all the circumstances. If you are unable to determine this, seek advice from a more experienced assessor or engage an expert. If you are still unsure, you should escalate the matter to the appropriate NHC representative.

# i. Pre-existing legal requirements

If there was an existing legal requirement for the customer to make modifications to the property at the time the natural hazard occurred or in the future, you must exclude the cost of these from the scope of works. An example of this type of legal requirement is where an earthquake-prone building notice has been issued and seismic repairs are required. If there was such a legal requirement, the homeowner did not carry out the works, and that failure caused the natural hazard damage or made it worse, that may provide grounds to decline the claim. For further details on grounds for declining a claim, see the <u>Declining a Claim Guide – NHI Act</u>.

You should determine the most appropriate approach to cost the repair based on the

<sup>64</sup> See the <u>NHC Claims Manual – Residential Land – NHI Act, Section 9.e What is the maximum amount</u> (the land cover cap) that can be paid for a residential land claim?

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#### Page 100 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



circumstances, which may be to:

- complete the costings as if all legally required modifications will occur, but the cost of those modifications will be funded separately; or
- complete the costings as if the residential building or land will be repaired without the legally required modifications being made.

# f. Common types of pre-existing conditions in a residential building

## i. Overview

The detail below is a guide only and each case will turn on its own facts.

When you assess a property, there may be indicators that, either collectively or individually, indicate that there are pre-existing conditions. Take a holistic approach and consider all relevant factors together, not in isolation.

If in doubt, engage an appropriately qualified expert,<sup>5</sup> such as a licensed building practitioner, a geotechnical engineer or (in some cases) a structural engineer, to determine what natural hazard damage occurred, or whether the state of the residential building results from a pre-existing condition.

# ii. Damage from an earlier natural hazard

All damage occurring within a consecutive 48-hour period that is a direct result of any natural hazards and following extended damage is treated as an 'event' and covered under a single NHCover claim. A different period (7 days) applies for volcanic activity and natural hazard fires.

For more information about 'extended damage' and the term 'event', see <u>NHC Claims</u> <u>Manual, Residential Buildings – NHI Act, Section 3.g.iii Situation where there is more</u> <u>than one natural hazard in a 48-hour period or 7-day period</u>.

Only new natural hazard damage is covered under the current (new) claim. Where a pre-existing condition is damage from an earlier natural hazard, this damage is not covered by the current claim when:

- there is a prior claim relating to the earlier damage, but that claim is not valid.
- there is no prior claim relating to the earlier damage, and the current claim was made more than 2 years after the earlier damage.

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## Page 101 of 427 | NHC Assessment Manual – NHI Act



- there is no prior claim relating to the earlier damage, and the current claim was made within 2 years of the earlier damage. In this case, consider whether a new claim should be opened for the earlier damage.
- there are one or more prior claims relating to the earlier damage, and the current damage has occurred without sufficient time to repair the earlier damage.

Where we have settled for previous damage and the customer has had sufficient time but they haven't carried out the repair, consider grounds to decline the current (new) claim under section 73(3) of the NHI Act. In such cases, additional considerations apply.59

#### iii. Design and/or construction-related matters

Design and/or construction-related matters are not natural hazard damage. These matters are often interdependent, but there will be cases where the matter relates to only one:

- Building additions at different times, with different standards and/or materials, e.g. variation in foundation type, addition to stucco or roughcast plaster cladding
- Displacement due to wind loading, e.g. stress on structure due to prevailing wind conditions
- A heating source amplifying natural thermal changes, e.g. cracking to interior linings due to expansion and contraction caused by heat from a chimney flue or heat pump.

## a. Weathertightness

Weathertightness issues can commonly be caused by design, construction, materials, or any combination of these. Common examples of these causes include:

- ingress of external moisture to the building;
- insufficient spouting and/or rainwater discharge;
- insufficient ground clearance. ٠

Common examples of areas where weathertightness issues are seen include:

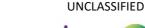
- internal guttering; •
- enclosed fascia and guttering system;
- penetrations, e.g. pipes, flues, electrical conduit;
- decking additions (where attached to the superstructure of the dwelling).

## Leaky building syndrome

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Due to design, construction, and building material issues, some houses that were built from the late 1980s to early 2000s were not weathertight and did not meet the





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## Page 102 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025

Natural Hazards Commission Toka Tū Ake

New Zealand <u>building code</u>. When water or moisture entered between the cladding and the framework and could not escape, it caused damage, e.g. fungal growth and rot. This is commonly referred to as leaky building syndrome.

Repair costs associated with leaky building syndrome are not covered by the NHI Act. However, it is difficult to separate the costs to remedy the natural hazard damage from the costs to repair damage caused by leaky home syndrome. As such, anyone involved in this work needs to have a clear understanding of what damage is the likely result of leaky building syndrome to distinguish it from damage occurring as the result of a natural hazard.

b. Potential grounds to decline a claim - considerations for buildings

In all cases where you have identified design or construction-related matters, you must also consider the potential grounds to decline a claim, for example, where the natural hazard damage has been caused or made worse by:

- any works associated with the residential building that do not comply with any law or legal requirement. Consider grounds to decline under <u>section 75 of the NHI</u> <u>Act</u>.<sup>59</sup>
- any of the following that have not been constructed to standards considered appropriate at the time of construction:
  - any part of the residential building that is not an integral component of the eligible building (service infrastructure and appurtenant structures)
  - land structures.<sup>65</sup>

Consider grounds to decline under section 76 of the NHI Act.

For all grounds to decline, see the <u>Declining a Claim Guide – NHI Act</u>.

# iv. Damage caused by an event not covered by the NHI Act

The NHI Act only covers damage caused by natural hazards as defined in <u>section 5 of</u> <u>the NHI Act</u>. In cases where damage has occurred from something other than a natural hazard, the NHI Act does not cover this damage. For example:

- fire not caused by a natural hazard occurring;
- impact damage such as a car hitting the building;
- frost damage, e.g. a burst pipe; or
- storm or flood damage to the residential building.





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Section 6 – Pre-existing conditions

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<sup>&</sup>lt;sup>65</sup> As defined in Section 4.b Is there insured 'residential land'?.

Page 103 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



## v. Damage due to 'age, wear and tear'

Where building materials have degraded over time due to age, wear and tear, this damage is not covered under the <u>NHI Act</u>. For example:

- weathertightness issues, e.g. to exterior plaster finishes;
- rot and moisture damage, e.g. to weatherboards;
- corrosion, e.g. to roof claddings and flashings;
- failure of concrete cover over reinforcing steel due to expansion of reinforcing steel as a result of corrosion (spalling);
- borer damage;
- concealed damage, e.g. leaking internal pipes.

# vi. Existing land conditions

Examples of existing land conditions that can affect the residential building include:

- swelling associated with expansive soils, e.g. clay;
- shrinking associated with organic soils, e.g. peat and plastic soils such as clay;
- below-ground subsidence (tunnel gulley erosion);
- poorly draining soils;
- settlement due to ground deformation as a result of geotechnical characteristics;
- voids.

## vii. Other considerations

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Other considerations include:

- age wear and tear, exceeding expected durability period of materials;
- expansion and contraction of materials, e.g. timber, tiles, concrete due to changes in temperature or moisture content, i.e. the expected behaviour of materials in specific conditions;
- vibration from local external factors, e.g. railway lines or neighbouring earthworks;
- vibration from internal factors, e.g. door slamming (occupancy load);
- localised stress on any parts of the building caused by attachments or loading, e.g. aerials, heavy mirrors, or items stored in a roof space.

# g. Common types of pre-existing conditions in relation to residential land

Residential land includes insured land areas and land structures, i.e. bridges, culverts and retaining walls.

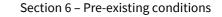




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Page 104 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### i. Damage from an earlier natural hazard

All damage occurring within a consecutive 48-hour period that is a direct result of any natural hazards and following extended damage is treated as an 'event' and covered under a single NHCover claim. A different period (7 days) applies for volcanic activity and natural hazard fires.

For more information about 'extended damage' and the term 'event', see NHC Claims Manual – Residential Land – NHI Act, Section 3.g.iii Situation where there is more than one natural hazard in a 48-hour period or 7-day period.

Only new natural hazard damage is covered under the current (new) claim. Where a pre-existing condition is damage from an earlier natural hazard, this damage is not covered by the current claim when:

- there is a prior claim relating to the earlier damage, but that claim is not valid.
- there is no prior claim relating to the earlier damage, and the current claim has been made more than 2 years after the earlier damage.
- there is no prior claim relating to the earlier damage, and the current claim was made within 2 years of the earlier damage. In this case, consider whether a new claim should be opened for the earlier damage.
- there are one or more prior claims relating to the earlier damage, and the current damage has occurred without sufficient time to repair the earlier damage.

Where we have settled for previous damage and the customer has had sufficient time but they haven't carried out the repair, consider grounds to decline under section 73(3) of the NHI Act. In such cases, additional considerations will apply.<sup>59</sup>

#### ii. Design and/or construction-related matters

Design and/or construction-related matters are not natural hazard damage. **Examples include:** 

- issues with fill, including:
  - inappropriate material, e.g. organic or compressible material;
  - the site not being properly prepared before fill placement, e.g. soft compressible organic soils not stripped away before filling;
  - material not being placed to an appropriate engineering standard, e.g. not compacted properly or with inadequate consideration of drainage;
  - o placement of fill in a configuration that reduces slope stability, e.g. placement of fill on the top of a slope;





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#### Page 105 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- temporary or permanent excavations and cut batters that are too steep for the local geological conditions (and where temporary or permanent retaining structures should have been considered), resulting in land instability;
- poor stormwater management, e.g. stormwater discharging directly onto a slope, resulting in slope instability;
- placement of structural building loads (surcharge) without due consideration of the site geology, e.g. shallow foundations instead of piles in soft soil.
- a. Potential grounds to decline considerations for land

In all cases where you have identified design or construction-related issues, you must consider the potential grounds to decline a claim, including:

- any works associated with insured land and/or land structures that don't comply with any law or legal requirement. Consider grounds to decline under section 75 of the NHI Act.59
- any insured land structures that have not been constructed to the standards considered appropriate at the time of construction. Consider grounds to decline under section 76 of the NHI Act.59

## iii. Damage excluded under the NHI Act

- Movement of ground due to below-ground subsidence
- Soil expansion (heave)
- Soil shrinkage (desiccation)
- Soil compaction
- Soil erosion

# iv. Damage due to deferred maintenance

The NHI Act only covers loss or damage that is the direct result of a natural hazard that has occurred, so NHCover is not available for damage caused by deferred maintenance.

Examples of deferred maintenance include:

- blocked stormwater systems;
- rotten retaining wall poles;
- flood damage due to restricted watercourse, e.g. failure to properly maintain an appropriate unobstructed channel within the customer's property.





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#### Page 106 of 427 | NHC Assessment Manual – NHI Act



If you identify deferred maintenance-related issues, you must consider the potential grounds to decline a claim. This includes where the damage occurred (or was made worse) because the insured person did not take reasonable steps to mitigate the risk of natural hazard damage. Consider grounds to decline under <u>section 73 of the NHI</u> <u>Act</u>.<sup>59</sup>

# v. Existing land conditions

The NHI Act only covers loss or damage that is the direct result of a natural hazard, so NHCover is not available for existing land conditions, which might include:

- soil types, e.g. clay, peat that can change with prevailing conditions;
- existing or historical known site hazards, e.g. site is in an area of known slope instability.

# vi. Other considerations

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Other considerations include:

- soil settlement, i.e. progressive downward vertical movement of soil;
- removal of vegetation contributing to increased stormwater surface runoff and land instability;
- tree planting and/or removal resulting in a change to the land conditions, e.g. soil water content, ground volume.





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Section 6 – Pre-existing conditions

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Page **107** of **427** | **NHC Assessment Manual – NHI Act** 

Version as at 13/5/2025



#### **Engaging experts** 7.

#### **Overview** a.

In situations where an expert is necessary, depending on the type of natural hazard damage, such experts can include:

- structural engineers;
- geotechnical engineers; •
- registered valuers;
- estimators; •
- surveyors;
- any other appropriate expert.

For further information on when to engage specific experts, see Section 7.e Types of experts in this Manual.

#### When may an expert need to be engaged? b.

#### i. **Building claims**

For a building claim, you will most commonly require expert input when you are unable to determine:

- the full extent of the damage;
- whether any particular damage is the direct result of a natural hazard that has occurred; or
- a lawful and practicable remediation strategy for the natural hazard damage, e.g. one that complies with the **Building Act 2004**.

You should consider a structural engineering assessment in situations including when:

- the building has suffered structural damage to the foundation or superstructure, indicated by, for example:
  - o cracking to the concrete perimeter foundation, indicating lateral stretch, out-of-plane displacement (see Figure 43 below), or differential settlement.
  - lateral movement of the building superstructure relative to the foundation, indicated by the building moving in relation to its foundation or rotation of foundation elements, e.g. piles or concrete perimeter foundation.

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Section 7 - Engaging experts

#### NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

#### Page 108 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- structural or load-bearing elements that are out of plumb.
- a pattern of broken, binding, swinging or inoperable doors and windows, indicating potential racking or settlement.
- $\circ~$  damage to the foundation or superstructure near a chimney.
- separation between different parts of the building, e.g. at the interface between additions, alterations or balconies.
- o distortion of the roof cladding or damage to roof members.
- the supporting or surrounding land has damage (e.g. land cracking caused by lateral spreading, or inundation by ejected sand and silt) near the building footprint.
- floor levels have materially changed after the natural hazard event, adversely affecting the utility or amenity value.
- there are unstable and potentially dangerous parts of the building, e.g. damaged unreinforced brick or block walls or chimneys.
- interior linings have been damaged to an extent that bracing performance is likely to have been reduced.
- a geotechnical engineer advises that a structural assessment is required.



Figure 43 Out-of-plane displacement

In addition to the above, it is more likely that you will require structural engineering advice when assessing buildings that are not constructed in accordance with the New Zealand Standard 3604:2011 Timber-framed Buildings (NZS 3604). Examples include when there is damage to a building with:

- an irregular configuration, e.g. split level, hillside property or multistorey building with large openings; or
- non-standard construction materials (e.g. pre-cast tilt panel, reinforced concrete construction or concrete masonry walls).

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Section 7 – Engaging experts



Page 109 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# ii. Land claims

For a land claim, you will typically engage certain experts, e.g. geotechnical engineer and valuer, directly. Situations where this will arise include:

- any landslide affecting residential land;
- imminent damage<sup>6</sup> considerations;
- significant structural foundation damage.

# iii. Other considerations

Typically, you will engage experts as part of your post-site assessment actions.<sup>66</sup> Sometimes, it will be appropriate to engage an expert to carry out their site visit with you or, if the situation is urgent, before you.<sup>67</sup>

In some cases where you are unable to assess certain parts of the building or land, you may advise the customer that they should engage appropriate experts to assess for natural hazard damage. This might arise in situations where there are:

- health and safety issues, e.g. heights;
- access issues, e.g. inground service.

You must explain to the customer that reimbursement of fees<sup>68</sup> for professional services is not guaranteed.

Your organisation may also receive event information from us that provides an early indication of the likely technical and expert resources needed to assess properties within certain geographical areas. You should use this information to guide and support your event response planning and assessment approach. For more information, see Section 10.b.ix Review event information in this Manual.

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Section 7 - Engaging experts

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<sup>&</sup>lt;sup>66</sup> See Section 12 Post-site assessment actions.

<sup>&</sup>lt;sup>67</sup> See Section 10 Planning for a site assessment.

<sup>&</sup>lt;sup>68</sup> See <u>NHC Claims Manuals – Residential Buildings – NHI Act, Section 11.q Reimbursing fees incurred</u> by customers where a claim is reassessed/<u>NHC Claims Manuals – Residential Land – NHI Act,</u> <u>Section 12.q Reimbursing fees incurred by customers where a claim is reassessed</u>.

Page 110 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# c. Who may be engaged as an expert?

Experts engaged by us (or any person authorised to deal with claims on our behalf) must:

- be engaged on arm's-length commercial terms;
- be appropriately qualified and experienced;
- be independent of the customer; and
- not be subject to any conflict of interest that would, in the circumstances, reasonably be considered to prevent the professional from providing services to us in relation to the customer's claim or claims generally.

When engaging experts, consider the above along with any other relevant factors, e.g. location of the property and the distance, time, and any guidance that we may issue from time to time.

# d. How to engage an expert

In all cases when you engage experts, their reports must be for our use and the use of our agents. The reports must be able to be relied on by us. They will also be available to customers.

The expert you instruct may need to report on the damage being responded to under both the <u>NHI Act</u> and the private insurance policy. Both insurance responses can be covered by one report – however, once you receive the report, you must be able to clearly identify what damage is responded to under the NHI Act and what damage relates to the private insurance policy. This is important for calculating settlement of the claim.

When engaging an expert, you should issue formal instructions setting out your specific requirements. For all engagements, you must provide general information to the expert, e.g.:

- damage location address;
- customer contact details;
- loss details;

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• any other relevant matters, e.g. whether the claim needs extra care,<sup>69</sup> health and safety, time frame.

For each individual expert, you need to provide more specific information. For examples, see Appendix 4 Documentation examples. The expert reviews and accepts

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Section 7 - Engaging experts

<sup>&</sup>lt;sup>69</sup> For a definition of 'extra care claim' and more information, see our Extra Care Claims Policy.

#### Page 111 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



these instructions. You should also discuss and agree an indicative cost for their services.

Sometimes an expert does not accept the instructions. This can happen if the expert has a conflict of interest or the request is outside their scope of expertise, e.g. for uncommon and complex loss types. The expert may also recommend a different expert, based on the time and cost of travelling to the loss. However, these situations are rare because you consider these factors when deciding which expert to engage.

# e. Types of experts

# i. Geotechnical engineer

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a. Purpose of engaging a geotechnical engineer

For land claims, the geotechnical engineer's role is to assess how the land has been damaged and to provide a conceptual remediation strategy to the standard required.

The geotechnical engineer will be expected to have the expertise to provide the information that is necessary for:

- the valuer to provide a valuation of the insured property that has natural hazard damage;
- you (or another appropriate costing expert) to provide an appropriate scope of works and the undepreciated value of any land structures; and
- us (or any authorised person dealing with the claim) to use with the valuation, undepreciated value and scope of works to determine the customer's land claim settlement amount.

For building claims, you will sometimes need geotechnical engineering advice to determine a lawful and practicable remediation strategy for the building damage. When you have engaged a structural engineer, that structural engineer may require further input from a geotechnical engineer to help understand how the building has or will perform in the localised ground conditions. In such cases, you must provide the structural engineer with further instructions to engage a geotechnical engineer for advice on our behalf.



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Section 7 – Engaging experts

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#### Page 112 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



b. Instructions to give the geotechnical engineer

Give a clear and concise brief indicating the areas of damaged land, damaged land structures, and risk of imminent damage to insured land and land structures requiring an assessment. Your instructions will include requesting:

- a site plan showing relativity of dwelling, appurtenant buildings, access ways, land structures, services and service infrastructure within property boundaries;
- the property's legal description;
- a general description of the property and key features;
- identification of damage to land and land structures;
- a summary of any associated damage to the residential building;
- the proximate cause of the damage;
- any factors that we may need to consider that involve grounds to decline the claim under <u>sections 68 to 77 of the NHI Act</u>;<sup>70</sup>
- any grounds to consider pursuing subrogated recovery action against any liable third parties;
- a conceptual remediation strategy for land, land structures and residential buildings, in enough detail for the conceptual repair to be costed; and
- identification of any imminent damage to insured land, land structures, and/or residential buildings.
- c. Requirements from the geotechnical engineering report

You will require the geotechnical engineering report to include all information that you have requested as above. The geotechnical engineering report includes a written description of the damage identified, supported by visual aids and summarised in table format.

The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.

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<sup>&</sup>lt;sup>70</sup> See the <u>Declining a Claim Guide – NHI Act</u>.

<sup>&</sup>lt;sup>71</sup> See Section 13 Assessment documentation standards.

Page 113 of 427 | NHC Assessment Manual – NHI Act



# ii. Registered valuer

a. Purpose of engaging a valuer

The purpose of engaging a valuer is to provide:

- a value for each of the damaged land areas, consistent with the engineering report that is used to settle the land claim;
- the values of damaged land areas needed to help calculate the land cover cap,<sup>72</sup> which is the maximum amount that can be paid for an NHCover land claim; and
- information to help determine the correct basis for settling the NHCover land claim, which is the lesser of the actual loss suffered and the land cover cap. The actual loss suffered is usually the reinstatement cost, but may include DOV.
- b. Instructions to give to a valuer

Your instructions will include requesting the:

- property's RT reference, legal description and zoning;
- actual site area;
- district plan minimum area;<sup>73</sup>
- market value for the site as per the requirements set out in <u>section 44 of the NHI</u>
   <u>Act</u> (if there is a district plan, the value of land equal to the minimum area allowable, an area of land of 4000 m<sup>2</sup>, or the area of land that is actually lost or damaged, whichever is the smallest);
- market value for damaged insured land areas;
- market value for any land that is considered to have imminent damage risk.

If you identify that it may be appropriate to assess and/or settle a land claim (in whole or in part) on the basis of DOV, your instructions should include requesting the DOV. For more information, see <u>NHC Claims Manual - Residential Land - NHI Act</u>, <u>Section 7.A.c.i What is the actual loss suffered?</u>. For the valuer to begin their assessment, you need to provide them with either:

- the geotechnical engineering report being used for settling the land claim (in particular, the Summary of Damage table); or
- your assessment report, where there is no geotechnical engineering report.

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Section 7 – Engaging experts

<sup>&</sup>lt;sup>72</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 9.e What is the maximum amount (the land cover cap) that can be paid for a residential land claim?</u>.

<sup>&</sup>lt;sup>73</sup> 'District plan minimum area' means the minimum area (in square metres) allowable under the district plan for the land that is used for the purpose for which the residential land was being used at the time the natural hazard damage occurred.

# Page **114** of **427** | **NHC Assessment Manual – NHI Act**

Version as at 13/5/2025



Sometimes, you will need to engage a valuer, but you will not have a geotechnical engineering report or assessment report to provide to them, e.g. for notional valuation<sup>74</sup> requests. It is the valuer's responsibility to conduct their own thorough investigation and obtain all other relevant and necessary information that they need to complete their valuation report using the appropriate valuation methodologies and professional industry standards.

c. Requirements from the valuer's report

You will require the valuer's report to include all information that you have requested as above. The valuer's report includes a description and quantification of all insured land areas and land structures that have been damaged, presented in a table format. The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.

# iii. Estimator and quantity surveyor

a. Purpose of engaging an estimator or quantity surveyor

Generally, you will be able to:

- determine the proposed remediation strategy;
- quantify the cost in relation to building and land claims; and
- calculate the undepreciated value<sup>75</sup> of any damaged land structures. •

You will quantify the cost of the remediation strategy that is provided in the engineering report. However, depending on your organisation's processes and/or the circumstances of the claim, you may engage an estimator or quantity surveyor to create a scope of works or calculate the undepreciated value of any damaged land structure. Where you are not costing the repair and/or the undepreciated value,<sup>13</sup> we expect that an estimator will be able to do this for you for most claims. However, there may be some cases where it is appropriate to consider engaging a quantity surveyor where these are required for more complex property types.

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Section 7 - Engaging experts

<sup>&</sup>lt;sup>74</sup> For more information on notional valuations, see <u>NHC Claims Manual – Residential Land – NHI Act.</u> Section 7.A.d Assessing the relevant land values.

<sup>&</sup>lt;sup>75</sup> In accordance with section 45 of the NHI Act. For more information on 'undepreciated value', see the NHC Claims Manual – Residential Land – NHI Act, Section 7.A.d.iv, What is the undepreciated value of the insured land structures for the purposes of the land cover cap?.

## Page 115 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The estimator or quantity surveyor will:

- inspect the site if required;
- prepare costings to remediate natural hazard damage based on engineering advice;
- calculate the undepreciated value of any damaged land structures.<sup>75</sup>

Typically, the scope of works will be peer reviewed and approved by an appropriate person.

# b. Instructions to give to an estimator or quantity surveyor

Your instructions will include requesting a scope of works suitable for remediating damage as detailed in the assessment report or the engineering report, to the standard required under the NHI Act and other relevant legislation, including:

- any additional enabling or access works required;
- relevant professional and compliance fees;
- relevant preliminary and general costs;
- required health and safety costs.

For further details on what the costing must include, see Appendix 3 Remediation strategy, standards and costing.

c. Requirements from the estimator or quantity surveyor's report

You will require the estimator or quantity surveyor's report to include all information that you have requested as above. Their report includes a detailed line item costing of the remediation strategy. The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.

# iv. Survey specialist (for a building)

A survey specialist, i.e. a Registered Professional Surveyor (RPSurvs), for a building is rarely required. You will most commonly require a survey specialist for complex buildings, e.g. buildings exceeding two storeys.

a. Purpose of engaging a survey specialist for a building

You should consider engaging a survey specialist where the results of the survey do not allow you to determine how a building has performed during a natural hazard and a more accurate survey may help in the assessment.

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Section 7 – Engaging experts

# Page 116 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# b. Instructions to give a survey specialist for a building

Request that the survey specialist provide their survey results, which will typically include verticality surveys, floor level surveys and other levels, e.g. kitchen benchtop, ceiling and windowsills.

c. Requirements from the survey specialist for a building

You will require the survey specialist's report to include all information that you have requested as above. The survey specialist for a building will provide a building plan depicting the necessary information. The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.

# v. Survey specialist (for land)

A survey specialist for land is rarely required. Before determining whether a survey is required, you should obtain and consider (at a minimum):

- copies of the relevant records of title (particularly showing the location of the boundary); and
- any relevant information from the TA file for the properties in question.

If you still cannot determine the location of the insured land from this information with reasonable confidence, you should obtain a survey to confirm the location.

a. Purpose of engaging a survey specialist for land

A survey specialist for land will provide a cadastral survey plan detailing the property boundaries and the location of any relevant land structures.

b. Instructions to give a survey specialist for land

Request that the survey specialist for land provide a survey plan that clearly shows the location of the land structures in relation to the property boundary.

c. Requirements from the survey specialist for land

You will require the survey specialist's report to include all information that you have requested as above. The survey specialist for land will provide a plan showing the location of the land structures in relation to the property boundary. The survey specialist's report will include an aerial or site map detailing the property boundaries and the location of land structures in relation to the property boundaries. The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.









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Section 7 – Engaging experts

Page 117 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# vi. Structural engineer

a. Purpose of engaging a structural engineer

In some cases where the damage is structural and the appropriate repair is not clear, you will require expert input. See Section 7.b When may an expert need to be engaged? in this Manual for examples.

The structural engineer's role is to assess the residential building damage and how it can be reinstated to the standard required. They should have the expertise to provide the information that is necessary for:

- you, the estimator or quantity surveyor to provide an appropriate scope of works; and
- us (or any authorised person dealing with the claim) to use with the scope of works to determine the customer's building entitlement.
- b. Instructions to give a structural engineer

For building claims requiring structural engineering input, give a clear and concise brief indicating the damaged residential buildings and risk of imminent damage to insured residential buildings requiring an assessment. Your instructions will include requesting:

- a general description of the property and key features;
- identification of damage to the dwelling, appurtenant structures, services and service infrastructure as applicable;
- the proximate cause of the damage;
- any factors that we may need to consider that may involve grounds to decline the claim under sections 68 to 77 of the NHI Act;<sup>76</sup>
- a proposed remediation strategy to the residential building, in enough detail for the proposed repair to be costed; and
- identification of any imminent damage to the insured residential building.
- c. Requirements from the structural engineering report

You will require the structural engineering report to include all information that you have requested as above. The structural engineering report includes a written description of the damage identified, supported by visual aids.

The report should also comply with any general documentation standards<sup>71</sup> that we will advise of from time to time.

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Section 7 – Engaging experts

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<sup>&</sup>lt;sup>76</sup> See the <u>Declining a Claim Guide – NHI Act</u>.

Page 118 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# vii. Other appropriate experts

Sometimes, you will need to obtain advice from other appropriate experts to determine the type and extent of natural hazard damage when you are unable to determine it yourself, e.g.:

| <ul> <li>Licensed Building<br/>Practitioner (can be<br/>licensed in any of the<br/>following):         <ul> <li>Carpentry</li> <li>Roofing</li> <li>Brick and block<br/>laying</li> <li>Exterior<br/>plastering</li> <li>Foundations</li> </ul> </li> <li>Asbestos testing and<br/>repair specialist</li> <li>Subfloor inspector</li> <li>Crack repair specialist<br/>or concrete coring<br/>service</li> <li>Electrician</li> <li>Plumber (licensed by<br/>the PGDB)</li> </ul> | <ul> <li>mechanical engineer</li> <li>Elevator technician</li> <li>Utility locator</li> </ul> | <ul> <li>Environmental tester<br/>(e.g. mould)</li> <li>Fire engineer</li> <li>Specialist drone<br/>operator</li> <li>Commercial abseiler</li> <li>Building or resource<br/>consent specialist</li> <li>Retaining wall, bridge<br/>or culvert<br/>construction<br/>specialist</li> <li>Earthworks<br/>contractor</li> <li>HAIL site testing and<br/>repair specialist</li> <li>Arborist</li> <li>Geophysicist<br/>(concrete scanning)</li> </ul> |
|--|---|--|
|--|---|--|

# f. Reviewing expert reports

When you receive the expert's report, check it to ensure the expert has complied with your instructions and that the findings are within the expert's scope. If the report comments on areas outside of the expert's area of expertise or the scope of your instructions, e.g. how the <u>NHI Act</u> should be interpreted regarding the claim, return it to the expert for amendment.

AA Insurance



UNCLASSIFIED





Section 7 – Engaging experts



Page **119** of **427** | **NHC Assessment Manual – NHI Act** 

Version as at 13/5/2025



#### Assessing damage across multiple properties 8.

#### **Overview** a.

Assessing multiple properties is similar to assessing a single property, but you must also consider the effect of the damage and any remediation strategy for one property on adjoining properties. The following multiple property types are discussed in this section:

- properties that have multiple dwellings, or a mixture of dwellings and other premises, within a single building, or across multiple buildings on the same property (multi-unit buildings);
- multi-unit buildings where the residential percentage<sup>77</sup> is less than 50% (mixeduse buildings);
- properties containing residential building or land components that a person other than the insured person also has an insurable interest in (shared property and shared land);
- neighbouring properties that are affected by the same natural hazard.

#### Principles of assessing multiple property claims b.

The following principles apply to assessing all multiple property claims:

- For residential building claims, NHCover is provided at a residential building level, • so you must assess natural hazard damage for each residential building separately.
- If a residential building contains more than one dwelling, you must assess the natural hazard damage to the building as a whole, rather than as individual dwellings.
- If a building contains more than one residential building, you must assess the natural hazard damage for each residential building separately but taking into account the natural hazard damage to the building as a whole.
- If there is more than one residential building, you must separately determine the ٠ insured residential land (and assess the natural hazard damage to that land) in relation to each residential building (for these purposes, the residential building includes any appurtenant structures, but not service infrastructure).<sup>78</sup>





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<sup>&</sup>lt;sup>77</sup> See Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual for more information.

<sup>&</sup>lt;sup>78</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.b.i 'Residential land' is in relation to</u> a 'residential building'.

#### Page 120 of 427 | NHC Assessment Manual – NHI Act



• When assessing parts of the residential building, land areas or land structures that serve more than one dwelling or non-residential property, you must determine claim entitlements reflecting the insurable interests of the insured person and other affected parties.

These principles are explained in more detail below.

# c. Process for assessing damage across multiple properties

When you have identified a potential multiple property situation with natural hazard damage, before you complete your assessment, your organisation must where possible:

- identify insured and uninsured property that has been damaged;
- identify who insures the insured damaged property;
- identify whether there is natural hazard damage to residential land associated with two or more residential buildings that are insured by different insurers and agree who will engage the land assessment lead. See the <u>Multi-party Land</u> <u>Approach Guide – NHI Act</u> for details.

For land claims, it may not be possible to complete these steps before a site assessment takes place, e.g. because:

- an expert may be required to identify the type and extent of natural hazard damage, including which properties are affected;
- it may not be immediately clear which land areas or land structures are shared, common or joint land and which are exclusive;
- there may be imminent damage that is unknown to the owner or insured person.

To assess multiple properties, follow the steps outlined below. The specific circumstances of the property you are assessing will determine how you carry out these steps.

- 1. Identify each residential building (Section 8.c.i in this Manual).
- 2. Determine whether there is a multi-unit building, and if so, categorise it (Section 8.c.ii in this Manual).
- 3. If there is a land claim, identify the residential land in relation to each residential building (including appurtenant structures, but excluding service infrastructure) (Section 8.c.iii in this Manual).
- 4. Identify any natural hazard damage (Section 8.c.iv in this Manual).

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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#### Page 121 of 427 | NHC Assessment Manual – NHI Act



- 5. Document the natural hazard damage in relation to each residential building (Section 8.c.v in this Manual).
- 6. Determine a suitable remediation strategy, or engage an appropriate expert for further assessment of the property (Section 8.c.vi in this Manual).
- 7. Create a scope of works for the remediation strategy (Section 8.c.vii in this Manual).
- 8. If there is a land claim, engage appropriate experts to determine the amounts for the land cover cap (assessed market value, area caps, and undepreciated value) (Section 8.c.viii in this Manual).
- Apply cover proportionately to any shared property and shared land (Section 8.c.ix in this Manual).
- 10. Apply cover proportionately to any joint property and joint land (mixed-use buildings only) (Section 8.c.x in this Manual).
- 11. Apply cover proportionately to any common property and common land (mixed-use buildings only) (Section 8.c.xi in this Manual).
- 12. Create a settlement recommendation (Section 8.c.xiii in this Manual).

# i. Identify each residential building

Identify each residential building by first identifying:

- each eligible building.<sup>79</sup> The eligible building is the building that contains the dwelling or dwellings. If the fire insurance contract only covers part of a building, the eligible building is just that part. If the fire insurance contract covers the whole building the eligible building is the whole building.
- any dwellings in the eligible building.<sup>80</sup> For a building to be an eligible building, it must contain at least one dwelling.
- the parts of each residential building.<sup>81</sup> The eligible building, appurtenant structures, and service infrastructure together make up the residential building



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<sup>&</sup>lt;sup>79</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4.C What is an 'eligible building'?</u>.

<sup>&</sup>lt;sup>80</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4.C.c What is a 'dwelling'?</u>.

<sup>&</sup>lt;sup>81</sup> See the <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4 Is there an insured</u> <u>'residential building'?</u> and <u>NHC Claims Manual – Residential Land – NHI Act, Section 5 Is there an</u> <u>insured 'residential building'?</u>.

## Page 122 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



that has NHCover. Identifying the residential building is also critical to identifying any related residential land.

If the eligible building is a mixed-use building, NHCover for the residential building applies to the dwellings, appurtenant structures and service infrastructure for the dwellings, and proportionately to any common or joint property. For detailed guidance on determining whether an eligible building is a mixed-use building, see Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual.

Whether there is a residential building is determined when:

- the new fire insurance contract or direct NHCover for the property is entered into; or
- the fire insurance contract or direct NHCover is renewed.
- If, partway through the period of the cover under the fire insurance contract or direct NHCover, the building no longer meets the definition of residential building in the <u>NHI Act</u>, NHCover nevertheless continues. The cover continues for that building until:
- the fire insurance contract for that building ceases to be in force (e.g. expires or is cancelled or suspended by the private insurer); or
- when the fire insurance contract comes to an end (whether for renewal or otherwise) the building no longer meets the definition of residential building; or
- we cancel the NHCover for that building.<sup>82</sup>

The reverse also applies – if a building meets the definition of residential building partway through the period of cover, it does not receive cover until the fire insurance contract is renewed (or a new fire insurance contract is taken out for the property).

In certain circumstances, a building may also retain NHCover, even if renovations or damage to the building mean that it will not meet the criteria to be a dwelling at the time the fire insurance contract is entered into or renewed. See the <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, Section 4.C.c.ix What is the effect of a</u> <u>'dwelling' becoming or ceasing to be a 'dwelling' (temporarily or otherwise)?</u>.

# a. Identify the eligible building

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An eligible building under the NHI Act is either a whole building or part of a building that contains one or more dwellings.





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<sup>&</sup>lt;sup>82</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 3.i Has the NHCover been</u> cancelled or limited in any way?.

#### Page 123 of 427 | NHC Assessment Manual – NHI Act



Whether the eligible building is a whole building or part of the building is determined by the cover under the fire insurance contract:

- If a single fire insurance contract covers the whole building, the whole building is the eligible building.
- If the fire insurance contract covers only part of the building, that part is the eligible building.

# ii. Determine whether there is a multi-unit building (MUB) and if so, categorise it

To apply the general assessment steps outlined above to a residential building assessment, you must understand what a multi-unit building is and how we categorise them.

To ensure a consistent approach to managing MUB claims, we break these down into four categories. MUB categories are used for operational purposes, including preparing for and carrying out your assessment and managing the claim. Regardless of the MUB category, you must assess each building in accordance with the NHI Act.

The four categories are:

- MUB1: MUB1s are separately owned and insured dwellings that share building elements. These are generally attached and semi-detached houses.
- MUB2: MUB2s are two or more dwellings insured under a single policy. These are generally apartment buildings, blocks of flats, or similar, but also include separate dwellings on the same property under a single insurance policy.
- MUB3: MUB3s are buildings that have a mix of residential and commercial or other non-residential uses.
- MUB4: MUB4s are buildings that include long-term accommodation for the elderly. They are often part of a larger complex, such as a retirement village, which includes other buildings (e.g. standalone dwellings or non-residential buildings). The flowchart below illustrates the considerations when categorising MUBs. For more details on each MUB type, see the sections below.

The flowchart below illustrates the considerations when categorising MUBs. For more details on each MUB type, see the sections below.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties



Page 124 of 427 | NHC Assessment Manual - NHI Act

#### Version as at 13/5/2025



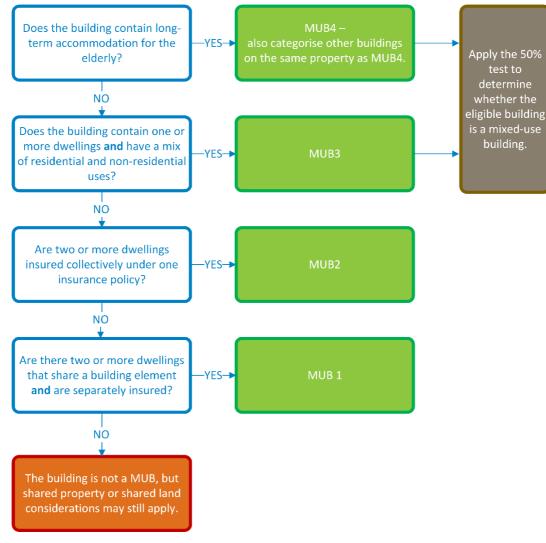


Figure 44 Categorising multi-unit buildings

a. MUB1 - Separately owned and insured



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MUB1 refers to dwellings that are separately owned and insured, that share a building element (e.g. a shared roofline, foundation or firewall). These are usually a group or series of two or more dwellings that are attached or semi-detached.



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## Page 125 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



With a MUB1, each dwelling is a separate eligible building.

b. MUB2 – Residential buildings that are on a unit title and/or part of a body corporate



MUB2 refers to two or more dwellings that are insured collectively under one insurance policy. This category includes:

- buildings comprising two or more dwellings that share a building element (e.g. a shared roofline, foundation or firewall), such as apartment buildings. Buildings of this type are an eligible building containing two or more dwellings.
- where two or more detached dwellings are insured under one insurance policy, such as two houses on the same property. Each building of this type is a separate eligible building.
- c. MUB3 Buildings with a mix of residential and non-residential uses





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# Page 126 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



MUB3 refers to any eligible building covered under a single fire insurance contract:<sup>83</sup>

- that comprises or includes one or more dwellings; and
- where there is a mix of residential and commercial or other non-residential uses within that building, e.g. where there is a retail shop on the ground floor and dwellings on the floors above.

Buildings that are a MUB3 may also be mixed-use buildings, if the residential percentage is less than 50%. See Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual for further information on mixed-use buildings and the '50% test'.

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- d. MUB4 Long-term accommodation for the elderly

MUB4 refers to any eligible building that includes long-term accommodation for the elderly. Facilities that provide long-term accommodation for the elderly are specifically included in NHCover as a dwelling under the <u>NHI Act</u>.<sup>84</sup>

Buildings that are MUB4s are often part of a larger complex, such as a retirement village, aged care facility, or similar. In those cases, if there are other buildings in the complex that have NHCover, you must also categorise those buildings as MUB4 (even if they would fit within a different MUB category). This is an operational categorisation, and does not affect the cover that those buildings receive under the NHI Act. You must still assess each building in accordance with the NHI Act.

Buildings that are a MUB4 may also be mixed-use buildings, if the residential percentage is less than 50%. See Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual.

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<sup>&</sup>lt;sup>83</sup> For more details on mixed-use buildings, see <u>NHC Claims Manual – Residential Buildings – NHI Act,</u> <u>Section 4.C.d What is meant by a 'mixed-use building'?</u>.

<sup>&</sup>lt;sup>84</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4.F How does the NHI Act cover</u> <u>'long-term accommodation for the elderly'?</u>.

#### Page 127 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Identifying long-term accommodation for the elderly

Facilities that provide long-term accommodation for the elderly come in a range of forms. The key factor in identifying long-term accommodation for the elderly is assessing whether the building comprises the style of accommodation for elderly people found in many rest homes. Under the NHI Act, long-term accommodation for the elderly is treated as a single dwelling, and includes accompanying facilities. This type of accommodation is distinct from self-contained accommodation (e.g. self-contained villas and apartments in a rest home complex), which are instead treated as separate dwellings.

If a facility provides only short-term accommodation, such as respite or hospital care, it does not meet the definition of a dwelling. However, if a facility provides a combination of both short- and long-term care, NHCover may apply to the whole building or to a part of it.

If you identify a property that includes a rest home, a retirement village, a combination of the two, or a combination of short-term and long-term care, you must consider whether each eligible building within the property is a mixed-use building.<sup>85</sup>

If an eligible building contains both long-term accommodation for the elderly and self-contained dwellings (under the same fire insurance contract), the building cover cap is calculated on the basis that:

- the long-term accommodation for the elderly is one dwelling in its own right; and
- the self-contained dwellings are additional to it.

For example, if an eligible building contains long-term accommodation for the elderly and four self-contained dwellings, both that accommodation and the dwellings must be separately disclosed for the building cover cap to be applied on the basis of five dwellings.

e. Mixed-use buildings and the '50% test'

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When the eligible building is a MUB3 or MUB4, you must consider whether NHCover applies to the whole of the eligible building or only to the residential parts of it.

To determine this, you must calculate the residential percentage of the building, and apply the '50% test':

• If the residential percentage is 50% or more, NHCover applies to the whole eligible building as usual (including non-residential parts of the building).

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<sup>&</sup>lt;sup>85</sup> See Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual.

# Page 128 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



• If the residential percentage is less than 50%, the eligible building is a 'mixed-use building', and NHCover only applies to the residential parts (detailed below).

The residential percentage is the percentage of the internal floor area of the eligible building that is made up of dwellings and appurtenant structures. The internal floor area excludes the floor area of any common property, and areas that do not have a measurable floor area (such as ceiling voids). In many cases, these floor areas can be determined using the unit plan or flats plan for the property.

When calculating the floor area as part of the 50% test, you must only include the internal areas in your calculations (e.g. dwellings, hallways, stairwells, storage areas, basements, and internal parking spaces). The calculations do not include any external areas (such as decks, fire escapes, balconies, or verandas) or the roof, even if it is flat and can be walked on. The calculation also does not include buildings or structures outside of the eligible building, such as a separate garage building.

If the residential percentage of an eligible building is 50% or more, the whole eligible building is a residential building. NHCover applies to the entire building and any appurtenant structures and service infrastructure for the dwellings, assuming all other requirements under the NHI Act are met. This applies even if some of the eligible building is for non-residential use. However, even where non-residential parts of the eligible building are covered, there is no NHCover for property outside of the eligible building that does not meet the criteria for an appurtenant structure or service infrastructure under the NHI Act.

If the residential percentage is less than 50%, the building is a mixed-use building. In those cases, the NHCover for the residential building is limited to the residential parts.

The residential parts of a mixed-use building are:

- the dwellings in the eligible building;
- appurtenant structures for those dwellings;
- service infrastructure for those dwellings; and
- common and joint property for the building (on a proportionate basis).

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Section 8 – Assessing damage across multiple properties



### Page 129 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Common property and common land

Part of a mixed-use building is common property if that part is available for the use or benefit of the owners (or other occupants) of all premises in that eligible building, and that part is any of the following:

- an integral component of the eligible building, such as the roof, foundations, cladding or structural element;
- a common appurtenant structure for the premises, which could include a shared laundry area, shared stairwell, or shared lift, for example, where these are available for use by all occupants;
- common service infrastructure for the premises, such as the building's main water line, an HVAC system that serves the whole building, or the main electrical switchboard for the building;
- any other area in the eligible building that is not part of any premises, such as a common foyer, or storage area for building maintenance supplies.

To be available for the use of all owners, an area needs to be both physically and legally available for that use (although it does not actually need to be used by the occupants). These areas are often marked on the unit plan or flats plan for the building.

A part of the building is for the benefit of all owners if it is intended to provide an advantage to all owners in their occupation of the premises – for example, the roof or foundations.

Common land is any part of the residential land that is available for the use or benefit of all of the owners or occupants of the mixed-use building, and which all of the owners have an insurable interest in.

# Joint property and joint land

Part of a mixed-use building is joint property if that part is available for the use or benefit of the owners (or other occupants) of some, but not all, premises in that eligible building (the 'joint-owner premises'), where at least one of those premises includes a dwelling, and that part of the eligible building is any of the following:

- an integral component of the eligible building, such as the roof, foundations, cladding or structural element;
- a joint 'appurtenant structure for the joint-owner premises', which could include a shared laundry area, shared stairwell, or shared lift, for example, where this was available for use for some owners;

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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#### Page 130 of 427 | NHC Assessment Manual – NHI Act



- joint 'service infrastructure for the joint-owner premises', such as an HVAC system that serves part of the building, or a separate electrical switchboard for part of the building;
- any other area in the eligible building that is not part of any premises (such as a foyer, or storage area for building maintenance supplies for joint-owner premises).

### Section 14(2), NHI Act

For example, a hallway on a floor of the building may be legally for the joint use of premises on that floor, but not premises on other floors.

To be available for the use of some of the owners or other occupants, an area needs to be both physically and legally available for that use (although it does not actually need to be used by the occupants).

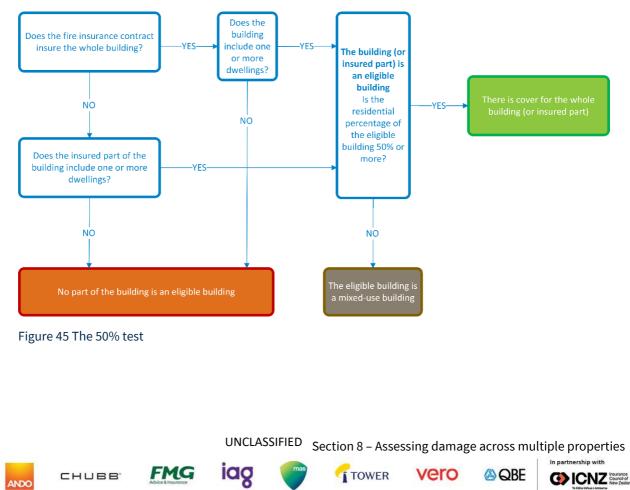
A particular part of a building is for the benefit of some owners or occupants if it is intended to provide an advantage to them in their occupation or use of the premises – for example, the roof or foundations.

Joint land is any part of the residential land that is available for the use or benefit of some, but not all, of the owners or occupants of the mixed-use building, and which those owners have an insurable interest in.

If you are unsure about what areas are included in cover for a mixed-use building, you should escalate the matter to the appropriate NHC representative.

The flowchart below illustrates the 50% test.

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#### Page 131 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For examples of applying the 50% test, see Section 8.d Examples of applying the 50% test in this Manual.

# iii. Identify the residential land associated with each residential building (land claim only)

Generally, you must identify the insured residential land area in relation to any residential buildings. Once you have identified each residential building,<sup>86</sup> you must determine:

- the insured person's land that each residential building is lawfully situated on;
- the insured residential land in relation to each residential building (excluding service infrastructure);
- any shared land;
- any joint land and common land (only in relation to a mixed-use building)

Residential land cover is measured from the part of the residential building that is the outermost point, at ground level, of the building. The outermost point is a point that provides a permanent firm base of the building on the ground. In the case of a mixed-use building, you usually measure the residential land from the foundations (following the usual approach for other residential buildings) because they are common property forming part of the residential building.

For a MUB1 dwelling located above the ground floor, you usually measure the residential land from where a stairway or other access way for the property is in contact with the ground. This is because it is a separate residential building and the only part of that building which is in contact with the ground is the stairway or other access way.

a. Determine the insured person's land

In general, the insured person's land consists of all the land within the boundaries shown on the RT for that property. However, land outside those boundaries may also form part of the insured person's land in situations where:

- the insured person has an estate or interest in other land that is used with land the residential building is situated on as a single residential property, and the two areas of land are contiguous (located next to each other, or only narrowly separated);
- there is an easement or other estate or interest that benefits one or both of those areas of land (such as a right of way providing access over neighbouring land).

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<sup>&</sup>lt;sup>86</sup> See Section 8.c.i Identify each residential building in this Manual.

# Page 132 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



For the purpose of determining the extent of the insured person's land, an encroachment licence or licence to occupy is not equivalent to an easement or other interest in land. For example, if the customer has an encroachment licence or licence to occupy neighbouring land that a garage is situated on, the land the garage is on is not treated as part of the insured person's land.

In some situations the NHI Act may treat the land within a single RT as two (or more) separate insured persons' land, if there are two eligible buildings on the same title. In those cases, for the purposes of cover, the insured person is treated as if they were a separate person in relation to each eligible building.

For detailed instructions on how to identify the insured person's land, see <u>NHC</u> <u>Claims Manual – Residential Land – NHI Act, Section 4.d What is the insured person's</u> <u>land?</u>.

b. Determine the insured residential land in relation to the residential building

Once you have determined the insured person's land, you must determine the insured land areas for each residential building separately.

Measure residential land areas from the residential building (excluding service infrastructure such as pipes, cables, tanks, and machinery). This includes measuring from any appurtenant structures that house service infrastructure for the dwelling, such as a shed housing a water pump.

How is the residential land identified?

For details on how to identify residential land, see the <u>NHC Claims Manual –</u> <u>Residential Land – NHI Act, Section 4.b What is 'residential land'?</u>.

Identifying the extent of the residential land is generally straightforward where there is:

- a single residential building comprising one or more dwellings; and
- the residential percentage is 50% or more.

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In these cases, you can assess the residential land claim for the entire residential building (including any appurtenant buildings and structures, but excluding any service infrastructure).<sup>87</sup>

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<sup>&</sup>lt;sup>87</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.c.iv Situation where there is a</u> residential building with one or more dwellings insured under a single fire insurance contract.

#### Page 133 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Identifying the extent of the residential land is more complex where there are any or a combination of the following:

- individually insured (MUB1) units (particularly on cross-lease properties);
- more than one residential building on a single property;
- mixed-use buildings (MUB3 or MUB4).

Examples of these situations are described below.

c. Identify insured residential land on cross-lease and other multi-unit properties

Where cross-lease properties<sup>88</sup> are damaged following a natural hazard event, there is often overlapping damage in relation to the same residential land or shared elements of each building. It is therefore important to identify cross-leases, the different insurance policies and the damage in question.

Cross-lease ownership involves two or more people jointly owning an undivided share in the freehold title of a property, with all owners then leasing an individual unit or 'flat' to each owner, sometimes with an associated area of land for exclusive use. The leases in a cross-lease development often require each dwelling owner to have separate insurance, although they can also require a single policy covering the whole property. Where a cross-leased property contains multiple dwellings in a single building, the dwellings involved are often separately insured by different private insurers.

Other property ownership types (such as unit titles and company share properties) can have very similar arrangements to a cross-lease. In these situations, identify the extent of the residential land depending on how many separately insured residential buildings there are.

# A property where each dwelling is separately insured – MUB1

More typically with a cross-lease property, and also with other ownership types, there may be a single building comprising multiple dwellings, but each dwelling is separately insured as a residential building in its own right (a MUB1). In that case, identify the insured person's land and the area of the residential land separately for each residential building.

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<sup>&</sup>lt;sup>88</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Sections 3.c.v What about making a claim for</u> <u>damage on a neighbouring cross-lease property?</u> and <u>4.c.v Situation where there is more than one</u> <u>residential building on the insured person's land</u>.

# Page 134 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



There will be areas of overlap between the areas of residential land for the different residential buildings. Take this overlap into account when assessing the residential land, because further considerations apply.<sup>89</sup>

# Land structures on a property with multiple residential buildings – MUB1

If a person other than the insured person has an insurable interest in a single land structure (bridge, culvert or retaining wall) (for example, there is shared ownership of the land structure), it is shared land.<sup>90</sup> Take this scenario into account when assessing the residential land, because further considerations apply.

<u>A single building with multiple dwellings insured as a single building – MUB2</u>

Sometimes multiple dwellings in a property are located in one building that is insured as a single residential building under the <u>NHI Act</u> (a MUB2). In that case, identify the extent of the residential land for that single residential building.<sup>91</sup>

For more information on cross-lease properties and multiple residential buildings on a property, see <u>NHC Claims Manual – Residential Land – NHI Act, Sections 3.c.v What</u> <u>about making a claim for damage on a neighbouring cross-lease property?</u> and <u>4.c.v</u> <u>Situation where there is more than one residential building on the insured person's</u> <u>land</u>.

d. Identify insured residential land where there is more than one residential building on a property

If there is more than one residential building situated at a single property, you must determine the insured residential land for each residential building (excluding service infrastructure).

The residential land areas for different residential buildings often overlap. Take this overlap into account when assessing the residential land, because further considerations apply.

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<sup>&</sup>lt;sup>89</sup> See Section 8.c.iv.a

Assessing damage to overlapping insured residential land in this Manual.

<sup>&</sup>lt;sup>90</sup> See the <u>NHC Claims Manual – Residential Land – NHI Act, Section 3.c.i Who is an 'insured person'?</u> and <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.c.x Situation where there is shared</u> <u>land</u>.

<sup>&</sup>lt;sup>91</sup> See the <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.c.iv Situation where there is a</u> residential building with one or more dwellings insured under a single fire insurance contract.

## Page 135 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# e. Identify insured residential land MUB3 and MUB4 buildings

The insured residential land for MUB3 and MUB4 buildings is generally the same as for MUB2 buildings. However, where the eligible building is a mixed-use building (i.e. the residential percentage is less than 50%), further considerations apply.

With a mixed-use building, land cover is measured from the parts of the eligible building that are insured as the residential building (see Section 8.c.iii Identify the residential land associated with each residential building (land claim only) in this Manual). Because the foundations and building superstructure are generally common property forming part of the residential building, residential land cover is usually measured with reference to the whole eligible building, as it is with a MUB2. Residential land cover is also measured from any appurtenant structures, including those that are common or joint property.

Some of the residential land with a mixed-use building may be joint land or common land, in which case cover applies proportionately. Because commercial and other non-residential premises are not part of the insured residential building (that is a mixed-use building), the insured residential land does not include areas that are legally for the exclusive use or benefit of those premises (e.g., an area that is a commercial loading zone for one of those premises).

f. Identify land structures situated on the boundary between two properties

For NHCover to apply to a land structure (a retaining wall, bridge, or culvert), the insured person must have an insurable interest in that structure. Generally, the insured person has that insurable interest because the land structure is within the insured person's land (meaning they hold an estate or interest in the structure).

However, land structures do not need to be within the insured person's land to be insured under the NHI Act. Where a land structure is situated partially within and partially outside the boundary of the insured person's land, the insured person's insurable interest in that land structure is met through their interest in the part of the land structure that is on or in the insured person's land. The insurable interest may also be created through contractual arrangements, such as a licence to occupy or an encroachment licence that applies to a structure on council land.

Because of this, cover for land structures is usually only for structures fully or partially within the insured person's land. However, it can also extend to structures outside the insured person's land where the insured person has an insurable interest in the structure through other means (if it meets the requirements for cover under section 18 of the NHI Act).

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#### Page 136 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## **Example**

To have NHCover for a bridge that is outside the insured person's land, the bridge must still be on or in land that would otherwise be the insured land areas. This means a bridge situated on the main access way to a residential building must be within 60 m of that building to be covered. The bridge is not covered if any part of it is more than 60 m from the residential building, even if the insured person has an insurable interest in the bridge. For more information on the insured person's land, see Section 8.c.iii.a Determine the insured person's land in this Manual.

## Bridges or culverts

If a bridge or culvert is located wholly outside the insured person's land, and there is no other arrangement creating an insurable interest in that structure, none of it is covered under the NHI Act.

## **Retaining walls**

If a section of a retaining wall that the insured person has an insurable interest in can be considered a retaining wall in its own right, that section is insured:

- provided it meets the requirements for cover in section 18 of the NHI Act; and
- even if it is attached to another section of the wall that is not insured and is also a retaining wall in its own right.

If the section of the retaining wall cannot be considered a retaining wall in its own right, or does not meet the requirements for cover in section 18 of the NHI Act, there is no cover for that section of wall.

If you are uncertain, consider obtaining advice from an appropriate expert,<sup>5</sup> e.g. a geotechnical engineer.

For more information, see:

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- <u>NHC Claims Manual Residential Land NHI Act, Section 4.h.vi What if one</u> end of the retaining wall and its support systems are beyond the 60 metres?
- <u>NHC Claims Manual Residential Land NHI Act, Section 4.h.vii What if the</u> <u>retaining wall is situated outside the insured person's land?</u>
- <u>NHC Claims Manual Residential Land NHI Act, Section 4.h.viii What if the</u> <u>Retaining Wall is situated on the boundary of the insured person's land?</u> This section includes what to do if:
  - $\circ\;$  it is not clear where the boundary lies in relation to the retaining wall; or
  - there is a disagreement about the boundary's location in relation to the retaining wall.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties





Page 137 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# iv. Identify any natural hazard damage

See the following sections of this Manual:

- Section 3 Identifying natural hazard damage to a residential building; and
- Section 4 Identifying natural hazard damage to residential land.
- a. Assessing damage to overlapping insured residential land

Where there is more than one residential building on a property, consider any overlapping land areas or land structures between residential buildings. If you identify that there is:

- no overlap, you can assess the residential land claim for each residential building separately.<sup>92</sup>
- an overlap but no land damage within the overlapping areas, you can still assess the residential land claim for each residential building separately.
- an overlap and there is land damage within the overlapping area, further considerations apply as described below.

Examples of considerations for overlapping land damage:

- Consider who has an insurable interest in the applicable land areas and/or land structures, including any parties who are not insured. If the residential buildings have the same owners, you must assess overlapping areas as if those areas had different owners.
- Consider how each party with an insurable interest is affected and to what extent, including who is responsible for repairing the damage.<sup>93</sup>
- If different insurers cover the residential buildings associated with the damaged land and/or land structures in overlapping residential land areas, consider whether you should trigger the process for determining a lead insurer.<sup>94</sup>

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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<sup>&</sup>lt;sup>92</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 4.c.iv Situation where there is a</u> residential building with one or more dwellings insured under a single fire insurance contract.

<sup>&</sup>lt;sup>93</sup> See Section 8.c.v

Document and allocate the natural hazard damage to the correct residential building in this Manual. <sup>94</sup> See the <u>Multi-party Land Approach Guide – NHI Act</u>.

#### Page 138 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- If there is a cross-lease<sup>95</sup> or any other legal contract (e.g. a lease or easement), consider whether its terms provide guidance, e.g. on the obligations of the parties.
- Settlement considerations<sup>96</sup> may also apply.

If you are unsure about assessing damage on overlapping residential land, you should escalate the matter to the appropriate NHC representative.

# b. Complex land damage scenarios

# Large-scale landslides

Large-scale landslides typically affect a wide land area and they may also be deep. They frequently affect multiple properties, especially in urban areas. There is often clearly visible damage from a large-scale landslide, but it is often more subtle damage, e.g. tension cracks or minor slumping damage, that shows the full extent of the landslide. This damage can be outside the insured person's land and, in many cases, several properties away from the property where the main visible damage has occurred.

You must identify any potential large-scale landslide as early in your assessment as possible. Obtain advice from an appropriate expert, e.g. a geotechnical engineer, to determine the full extent and cause of the landslide (including any imminent damage) and a conceptual remediation strategy. The engineer often needs to investigate beyond the immediate property boundary. In rare cases, they may recommend site specific investigations, e.g. installing and monitoring ground-measuring equipment. Consider these requests based on the claim-specific facts, and if required, you should escalate to the appropriate NHC representative for advice.

Large-scale landslides are often associated with pre-existing land conditions such as slope instability. If you suspect this is the case, you must obtain advice from an appropriate expert<sup>5</sup> (e.g. geotechnical engineer) to help determine whether the landslide is natural hazard damage.

Other complexities associated with large-scale landslides include the possibility of:

- multiple private insurers being involved;
- TAs applying dangerous building notices;
- global repair;

UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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<sup>&</sup>lt;sup>95</sup> For information on cross-lease properties, see Section 8.c.iii.c Identify insured residential land on cross-lease and other multi-unit properties in this Manual.

<sup>&</sup>lt;sup>96</sup> For settlement considerations, see Section 8.c.xiii Create a settlement recommendation in this Manual.

#### Page 139 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- cancellation or limitation of insurance;
- interest from the wider public and media.

These complexities can make it more difficult to communicate effectively with affected parties and co-ordinate the assessment activities. Consider whether managing the associated claims together will provide a better outcome for all affected customers. For more information, see the <u>Multi-party Land Approach Guide</u> <u>– NHI Act</u>.

If you are unsure about assessing damage where you identify there is a potential large scale landslide, you should escalate the matter to the appropriate NHC representative.

# Imminent damage-only claims

Although it is not common, a customer can have a valid NHCover claim where the only damage to their property is imminent damage.<sup>6</sup>

For example, a retaining wall on Owner A's property has rotated during heavy rainfall with some evacuation behind the wall on their property. The retaining wall is near the boundary with their downslope neighbour, Owner B, who is aware of the damage and is worried that if the retaining wall collapsed then their property would be inundated, close to their dwelling. Owner B notifies their insurer (as our agent) of the situation. In this case, the damage to Owner B's property may be considered imminent.

Often, either you or the expert<sup>5</sup> you engage (e.g. geotechnical engineer) will identify the risk to Owner B's property during the assessment of Owner A's claim for the damage that has already occurred. In these cases, you should make Owner B aware of the facts so they can decide whether to make a claim.

# v. Document and allocate the natural hazard damage to the correct residential building

Follow the assessment processes and standards set out under Section 10 Planning for a site assessment, Section 11 Carrying out a site assessment and Section 13 Assessment documentation standards in this Manual to document the natural hazard damage.

If required, engage an appropriate expert,<sup>5</sup> e.g. a structural or geotechnical engineer to further assess the building and/or land.

To allocate damage to the correct residential building, identify common and exclusive building elements as described below.



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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

vero



#### Page 140 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# a. Documenting and allocating damage to the building

To allocate all damage to insured areas within a residential building, identify exclusive and shared:

- building elements;
- appurtenant structures;
- service infrastructure.

Shared property is any part of the residential building that someone other than the insured person has an insurable interest in (e.g. a shared firewall with an easement over it). The <u>NHI Regulations</u> define who an 'insured person' is in relation to shared property – see the <u>Insurable Interests Guide – NHI Act</u> for further detail on this. For example, generally the interests of a mortgagee (e.g. a bank) do not result in residential land (or any part of it) becoming shared land.

Where shared property is damaged, the damage should be allocated according to each insured person's ownership interest in the damaged property. This ensures the same damage is not covered twice. See Section 8.c.ix Apply cover proportionately to shared property and shared land in this Manual for further information on determining the shared ownership interest.

If the building is a mixed-use building, you will also need to identify any common or joint property. This is discussed further below under the heading 'MUB3 or MUB 4'. You should typically document damage according to the MUB category as follows.

# All MUB categories

Document the damage to each part of a residential building separately:

- dwellings
- appurtenant structures
- service infrastructure
- shared property.

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Follow the additional guidance for the specific MUB category below.

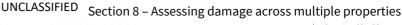
# <u>MUB1</u>

Document the damage to the entire building but separately for the:

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- exclusive parts of each residential building; and
- shared property belonging to two or more residential buildings (e.g. intertenancy walls and foundations).









#### Page 141 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### <u>MUB2</u>

Document the damage to the entire building but separately for each part described below:

- the exclusive parts of each dwelling, and appurtenant structures and service infrastructure exclusive to the dwelling;
- shared property, e.g. intertenancy walls with other buildings; and
- all remaining parts of the eligible building, if any (e.g. lift shafts and/or lobbies).

If there is more than one residential building, record the damage for each building separately.

# MUB3 or MUB4

There are key differences between MUB3 and MUB4 buildings, but the process for documenting and allocating damage is the same.

Document damage according to whether the building is a mixed-use building (based on the residential percentage).

If the **entire** eligible building is covered (not a mixed-use building):

- document the damage to the entire building; **and**:
- for each dwelling, document the damage separately for:
  - the dwelling;

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- appurtenant structures to the dwelling within the eligible building (e.g. a storage area or internal parking space);
- appurtenant structures to the dwelling outside the eligible building (e.g. a detached garage);
- o service infrastructure for the dwelling within the eligible building;
- $\circ~$  service infrastructure for the dwelling outside the eligible building; and
- for the building, document the damage separately for:
  - each part of the eligible building that is shared property;
  - any property that a dwelling shares use of with some (but not all) dwellings or non-residential premises in the eligible building (this would be joint property if it were a mixed-use building);
  - any property for the use or benefit of all premises in the eligible building (this would be 'common property' if it were a mixed-use building); and
  - each part of the eligible building that is commercial or non-residential property within the eligible building.

You do not need to assess any stand-alone commercial or non-residential property, but you should record them in your site assessment documents.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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CONT ICNZ Insurance Council of New Zeala



#### Page 142 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



If only **part** of the eligible building is covered (a mixed-use building):

- for each dwelling, document the damage to any exclusive building elements, including:
  - $\circ~$  the dwelling;  $^{97}$
  - appurtenant structures for the dwelling **within** the eligible building;
  - appurtenant structures for the dwelling **outside** the eligible building;
  - $\circ$  service infrastructure for the dwelling **within** the eligible building; and
  - service infrastructure for the dwelling **outside** the eligible building.
- for the building, document the damage separately for each part of the residential building that is:
  - joint property that is **within** the eligible building;
  - joint property that is **outside** the eligible building;
  - o common property that is **within** the eligible building; and
  - o common property that is **outside** the eligible building.

If any parts of the residential building are also shared property, document those parts separately.

Commercial or non-residential property within the eligible building (that is a mixeduse building) is not covered by the NHI Act. However, you should record any natural hazard damage to this property where it helps you to assess the insured residential parts of the building.

You do not need to assess any stand-alone commercial or non-residential property, but you should record them in your site assessment documents.

For more information on common and joint property, see Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual.

# b. Documenting and allocating damage to the land

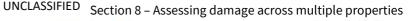
# All MUB categories

If there is a single residential building, allocate the damage to the residential land for that residential building, excluding service infrastructure. Clearly record the damage to:

- the insured land areas; and
- any insured land structures.

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<sup>&</sup>lt;sup>97</sup> 'Long-term accommodation for the elderly' is insured as a dwelling under the NHI Act.



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# Page 143 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



If there is more than one residential building, allocating the damage depends on whether the residential land for one residential building overlaps with residential land for any other residential building. If:

- no residential land overlaps with any other residential building, allocate the damage to the insured residential land for each residential building separately, the same as for a single residential building.
- any residential land overlaps with more than one residential building, allocate all damage to the insured residential land for each residential building (excluding service infrastructure) separately. Then, for each residential building, record the damage to:
  - o the exclusive land areas and land structures; and
  - $\circ~$  the shared land areas and land structures.

Shared land is any part of the residential land (including land structures) that someone other than the insured person has an insurable interest in (e.g. a shared driveway or shared retaining wall). The <u>NHI Regulations</u> define who an 'insured person' is in relation to shared property and shared land – see the <u>Insurable Interests</u> <u>Guide – NHI Act</u> for further detail on this. For example, generally the interests of a mortgagee (i.e a bank) do not result in residential land (or any part of it) becoming shared land.

Where an insured person for an eligible building has an insurable interest in a separate building, or part of a building, that contains a dwelling or other premises within the same property, they are treated as separate insured persons under Section 22(3) of the NHI Act.

If it is not clear which land components are exclusive and which are shared, record as much information as possible for further review and engage any appropriate experts<sup>5</sup>.

Follow the additional guidance for the specific MUB category below.

# MUB3 or MUB4

If there is one building and:

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- the building is not a mixed-use building, document the damage to the insured land areas and land structures. Include insured areas within the insured person's land that are for common use and non-residential use.
- the building is a mixed-use building, document the damage to the insured land areas and land structures. Identify insured areas that are common land or joint land. Exclude any land areas on the title plan that are only for use with non residential premises in the building. This means premises that are not part of the

UNCLASSIFIED Section 8 – Assessing damage across multiple properties

vero

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 ICNZ Insurance Council A New Zeal



#### Page 144 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



residential building, e.g. an area that is a commercial loading zone for one of those premises.

If there is shared land that is also common land (or shared land that is also joint land), you must record this in your assessment of the residential land. For example, where a mixed-use building shares a retaining wall with a neighbouring property, the retaining wall is:

- common land to the mixed-use building; and
- shared land between the mixed-use building and the neighbouring property.

# vi. Determine a remediation strategy

Determine a suitable remediation strategy for the residential building or land, engaging an expert if necessary. Where damage cannot be assessed safely, the customer will need to consider engaging an expert, e.g. to assess exterior building elements on a high-rise building. For most land claims, you should engage certain experts directly, e.g. geotechnical engineer and valuer.

If the damage is cosmetic, follow the processes in Appendix 1 Building components and repair considerations and Appendix 2 Land components and repair considerations in this Manual.

If the damage is structural, consider what effect the remediation strategy will have on adjoining residential buildings.

For general guidance in this Manual on:

- determining a suitable remediation for the residential building, see Appendix 1 Building components and repair considerations;
- determining a suitable remediation for the residential land, see Appendix 2 Land components and repair considerations;
- engaging an expert, see Section 7 Engaging experts.

# vii. Create a scope of works for the conceptual remediation strategy

For general guidance on creating a scope of works, see the following sections of this Manual:

- Section 12 Post-site assessment actions; and
- Appendix 3 Remediation strategy, standards and costing.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties vero

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#### Page 145 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



a. Create a scope of works for the building

For each residential building, either:

- create a separate scope of works for each part of the residential building; or
- separate each part of the residential building clearly within one scope of works.

For example, if the residential building is a mixed-use building, the parts of the residential building may include each dwelling, a foyer, a stairwell, a hallway, and any common areas (such as the foundations, exterior walls and roof).

For further guidance about what each part of the residential building is for specific MUB categories, see Section 8.c.v.a Documenting and allocating damage to the building in this Manual.

b. Create a scope of works for the land

If there is **one** building, and:

- the **entire** eligible building is covered (not a mixed-use building), prepare a scope of works for all land damage in relation to the entire building (excluding service infrastructure).
- only **part** of the eligible building is covered (a mixed-use building), prepare a scope of works for all land damage in relation to the part of the building (excluding service infrastructure) that is covered.

If there is **more than one** residential building, the scope of works you prepare for the land depends on whether a single or global remediation strategy applies, how many residential buildings the damage affects, and whether the damage is on shared land.

- If there is a single remediation strategy that will repair residential land damage that is:
  - exclusive to any one residential building (excluding service infrastructure), prepare a separate scope of works for that remediation strategy. For example, construct a retaining wall to remediate damage to land within 8 m of only one residential building.
  - on shared land, prepare a separate scope of works for the remediation strategy to each area that is shared land. For example, construct a retaining wall to remediate damage to a shared access way.
- If the residential land damage is not on shared land but affects multiple residential buildings, and a global remediation strategy is the only feasible way to repair it, prepare a separate scope of works for that remediation strategy. For example, construct a retaining wall to remediate damage affecting two neighbouring properties.







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CONT ICNZ Insurance Council of New Zeal

#### Page 146 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Allocate the repair cost of any land damage that overlaps between the insured land of multiple residential buildings to each residential building in accordance with how that damage has been allocated.<sup>98</sup>

# viii. Determine the appropriate valuation (land claim only)

For land claims, in addition to the above, you need the:

- assessed market value of the insured land areas that have been damaged (or the 'area cap' if that area is equal to or smaller); and
- undepreciated value of any insured land structures that have been damaged.

If any insured land areas are damaged, you should generally engage an independent valuer to provide the assessed market value of those land areas in a site-specific land valuation. However, in some cases, it may be a notional valuation.<sup>99</sup>

If there are any damaged land structures, you (or another appropriate costing expert) must calculate the undepreciated value of those structures.

For further guidance on determining the:

- assessed market value, see the Land Valuation Guide NHI Act; and
- undepreciated value, see Section 11 Carrying out a site assessment in this Manual.

# ix. Apply cover proportionately to shared property and shared land

If you have identified any natural hazard damage to shared property and/or shared land, the NHCover for that building element or land component is covered proportionately based on the insured person's shared ownership interest. This means you must determine the shared ownership interest that applies to each building element, land area or land structure.

The shared ownership interest is usually the percentage of the repair cost for the natural hazard damage that each insured person is legally required to meet (the 'repair responsibility'). This will be recorded in a legal document relating to the shared property or shared land, e.g. in an easement or cross-lease. Different percentages may apply for different building elements, land areas or land structures.

If you cannot ascertain that percentage, e.g. because the relevant documentation does not contain any information in relation to the repair responsibilities of each

Document and allocate the natural hazard damage to the correct residential building in this Manual.

UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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 $<sup>^{\</sup>scriptscriptstyle 98}$  For more information on allocating the damage, see Section 8.c.v

<sup>&</sup>lt;sup>99</sup> For details on when a notional value is applicable, see the <u>NHC Claims Manual – Residential Land –</u> <u>NHI Act, Section 7.A.d Assessing the relevant land values.</u>

#### Page 147 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



party, the usual approach is to allocate an equal share of the total insurable interest in the property to each holder of a relevant insurable interest (i.e. to each person who has an insurable interest in the property or land that gives them the use or benefit of the property or land).

In some cases, there is information available that shows that an even split would not be equitable. Where that is the case, you must consider the nature of each party's interest, the loss they have suffered (or are likely to suffer), and any other information you consider relevant to determine equitable percentages.

Once you have determined the percentage, you must apply it to the part of the scope of works that relates to the shared property or shared land.

As part of the land cover cap calculation, you must also apply the shared ownership interest to the assessed market value or undepreciated value, to the extent they relate to shared land (which includes land areas and land structures). However, you should not apply the shared ownership interest to the applicable limit<sup>100</sup> for land structures within the land cover cap. Instead, the applicable limit continues to apply in full, even if the undepreciated value is reduced.

For example, if the insured person's shared ownership interest for a damaged retaining wall is 25%, you should record the full cost of repairs to that wall in the scope of works. You should then apply 25% of that amount to the insured person's land claim entitlement (reflecting the shared ownership). You should also reduce the undepreciated value for the wall to 25% in the same way, for use in the land cover cap calculation. However, note that the \$50,000 (plus GST) per dwelling maximum for damaged retaining walls within the land cover cap is not reduced.

If the settlement includes a DOV calculation that relates to shared land, you should escalate the matter to the relevant NHC representative to confirm the correct approach.

For further information, see the <u>Insurable Interest Guide – NHI Act</u>.

# x. Apply cover proportionately to joint property and joint land

This step only applies if the eligible building is a mixed-use building, and only if it includes joint property or joint land.

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Section 8 – Assessing damage across multiple properties

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<sup>&</sup>lt;sup>100</sup> The 'applicable limit' is the number of dwellings in the residential building multiplied by \$50,000 plus GST for retaining walls, or \$25,000 plus GST for bridges or culverts.

#### Page 148 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



You should approach joint property and joint land in the same way as shared property and shared land, except that:

- you only need to consider the repair responsibility and interests of owners of the joint-owner premises within the mixed-use building; and
- you should base the percentage on the repair responsibility or interest relating to the joint-owner premises that are dwellings.<sup>101</sup>

For example, if there are eight units on a floor in a multi-unit building whose occupants jointly have exclusive use of the hallways and lobby on that floor, all units' owners have an equal responsibility to meet the cost of repairs to the floor. If six of the eight units are dwellings, the joint ownership interest for the hallways and lobby on that floor is 75%.

You should then apply that percentage for the particular joint property or joint land to the relevant items in the scope of works (and land cover cap, where applicable). However, you should not apply the joint ownership interest to the applicable limit<sup>100</sup> for land structures within the land cover cap. Instead, the applicable limit continues to apply in full even if the undepreciated value is reduced.

# xi. Apply cover proportionately to common property and common land

This step also only applies if the eligible building is a mixed-use building.

You must determine the common ownership interest by first using the percentage of interest in the common property or common land held by the owners of dwellings. You must only consider the interests of owners of premises in the building.

For example:

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- if the owners of the dwellings in a unit title development hold a unit title ownership interest of 360 out of a total of 1000, the common ownership interest is 36%;
- if the owners of the dwellings in a cross-lease hold 2/5 of the interest in the underlying title, the common ownership interest is 40%.

If you cannot ascertain the common ownership interest based on each owner's share in the building (for example, if there is only a single title for the whole building), you must use the building's residential percentage.<sup>77</sup>

You should then apply that percentage (the common ownership interest or the residential percentage) to items in the scope of works relating to all common

UNCLASSIFIED Section 8 – Assessing damage across multiple properties

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<sup>&</sup>lt;sup>101</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4.C.i Determining the common,</u> joint or shared ownership interest for a mixed-use building.

#### Page 149 of 427 | NHC Assessment Manual – NHI Act



property and common land (and land cover cap, where applicable). However, you should not apply the common ownership interest to the applicable limit<sup>100</sup> for land structures within the land cover cap. Instead, the applicable limit continues to apply in full even if the undepreciated value is reduced.

# xii. Apply cover proportionately where shared property or land is also common property or land, or joint property or land

There may be circumstances where shared property or shared land is also:

- common property or common land; or
- joint property or joint land.

In these situations, you must:

- first, apply the shared ownership interest to the items in the scope of works relating to the shared property or shared land; and
- second, apply the:
  - common ownership interest to the items in the scope of works relating to the common property or common land; or
  - joint ownership interest to the items in the scope of works relating to the joint property or joint land.

### xiii. Create a settlement recommendation

When you have completed the steps above, you will have all the information you need to prepare a settlement recommendation for each residential building and the land relating to it. The scope of works and valuation details will form the basis for your settlement recommendation.

For more information on claim settlement, see:

- <u>NHC Claims Manual Residential Buildings NHI Act, Section 8 How is an</u> <u>NHCover claim settled?/NHC Claims Manual – Residential Land – NHI Act, Section</u> <u>9 How is an NHCover claim settled?;</u>
- the Calculating Settlement Guide NHI Act; and
- the Reinstatement and Replacement Guide.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties

vero

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Page 150 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# d. Examples of applying the 50% test

The 50% test<sup>102</sup> is used to determine whether an eligible building is a mixed-use building.

The following examples provide guidance on how to consider the parts of the building that make up the whole when applying the 50% test. For each MUB category, at least two examples are provided – one where the entire building is a residential building, one where only part of the building is a residential building, and for MUB3s, a third example is provided to elaborate on bed and breakfast accommodation.

# i. Mixed residential and non-residential properties (MUB3)

The following scenarios are examples of applying the 50% test, where a part of the building is not residential.

a. Example 1 - the entire building is a residential building



The building pictured has one owner and is insured under a single policy. This building is an eligible building that contains five floors of apartments (dwellings) and one floor that is a retail shop.

Because the internal floor area of the apartments is 50% or more of the total internal floor area of the building, the building is not a mixed-use building. The entire building is a residential building, so NHCover applies to all of it. Because the entire building is a residential building, residential land cover can also apply to any part of the insured person's land.





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UNCLASSIFIED Section 8 – Assessing damage across multiple properties



<sup>&</sup>lt;sup>102</sup> For more information on the 50% test, see Section 8.c.ii.e Mixed-use buildings and the '50% test' in this Manual.

#### Page 151 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### b. Example 2 – only part of the building is a residential building

| Apartment   |  |  |
|-------------|--|--|
| Offices     |  |  |
| Retail shop |  |  |

The building pictured has one owner and is insured under a single policy. This building is an eligible building that comprises one floor that is a retail shop, four floors of offices, and one floor containing an apartment (dwelling). The apartment has a separate storage area within the building, which is an appurtenant structure.

The residential percentage of the building is 17%, which is the percentage of the internal floor area of the eligible building that is made up of the apartment and its appurtenant structure. The floor area of common property is excluded from this calculation.

NHCover does not apply to the whole building, because the residential percentage is less than 50%, making it a mixed-use building. However, NHCover does apply to:

- the apartment (dwelling);
- appurtenant structures for the apartment;
- service infrastructure for the apartment; and
- the common property and joint property in the building (on a proportionate basis) e.g. the roof, exterior walls and foundations.

Because the foundation of the building is part of the common property, the residential land is insured under the NHI Act, and measured around the whole building. However, the apartment has no exclusive area of land, and all of the land is common land, insured on a proportionate basis.

c. Example 3 – only part of the building is a residential building (bed and breakfast)

The ground floor of a two-level bed and breakfast is devoted to guests. The guest floor contains two bedrooms and is otherwise self-contained, with a total internal floor area of 100 m<sup>2</sup>.

The top floor is reserved for exclusive use by the owner as their home. It has a separate external access, two bedrooms, and is otherwise self-contained, with a total internal floor area of 90 m<sup>2</sup>. This building is an eligible building containing one



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UNCLASSIFIED Section 8 – Assessing damage across multiple properties





Page 152 of 427 | NHC Assessment Manual - NHI Act



#### dwelling.

NHCover does not apply to the whole building, because the residential percentage of the top floor (the owner's home) is less than 50%, making the building a mixed-use building. However, NHCover does apply to:

- the dwelling on the top floor;
- service infrastructure for the dwelling (and any appurtenant structures for the dwelling); and
- common property (there is no joint property in this case).

Because the foundation of the building is part of the common property, the residential land is insured under the NHI Act. Because the residential land is a single title and can be used with both premises, all of the land is common land, insured on a proportionate basis.

#### ii. Long-term accommodation for the elderly (MUB4)

The principles of the 50% test do not change for a rest home or retirement village, but the types of structure may be different.

### a. Example 1 - rest home



The building pictured contains a rest home and full accompanying facilities, as well as self-contained accommodation for the manager. The building has one owner and is insured under a single policy.

The rest home (providing long-term accommodation for the elderly) is treated as a single dwelling under the NHI Act. As a result, this building is an eligible building containing two dwellings (the rest home and the manager's accommodation). Because the internal floor area of the two dwellings is more than 50% of the total internal floor area of the building, it is not a mixed-use building. The entire building is a residential building, so NHCover applies to all of it. Because the entire building is a residential building, residential land cover can also apply to any part of the insured person's land.

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UNCLASSIFIED Section 8 – Assessing damage across multiple properties IQQ

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#### Page 153 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### b. Example 2 - retirement village

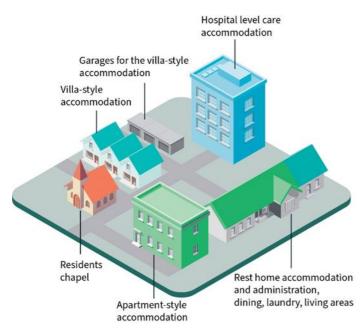


Figure 46 Retirement village

This example illustrates a retirement village complex that is made up of a variety of accommodation types and accompanying facilities. The whole complex has a single owner, and all buildings are insured under a single policy.

The complex contains:

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- rest home accommodation (long-term accommodation for the elderly), which includes administration, dining, laundry and living areas;
- villa-style self-contained accommodation;
- apartment-style self-contained accommodation;
- a detached garage, exclusively for use of occupants of the villa-style accommodation;
- hospital-level care accommodation (providing a higher level of rest home care);
- a residents' chapel, for use by all residents in the complex.



UNCLASSIFIED Section 8 – Assessing damage across multiple properties





**TOWER** 



Page 154 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



Table 3: 50% test for the buildings in this retirement village complex example (which includes long-term accommodation for the elderly)

| Building type   | Residential building<br>test outcome   | Residential<br>percentage | NHCover  |
|---|--|---------------------------|--|
| Villa-style<br>accommodation  | One residential<br>building containing<br>three dwellings                                  | More than<br>50%          | The whole building is<br>a residential building<br>and has NHCover.    |
| Detached garages<br>for villas  | Appurtenant structure n/a<br>to the villas   |                           | These are included in cover for the villas.                            |
| Rest home<br>accommodation*<br>and administration,<br>dining, laundry,<br>living areas      | n* building comprising 50% a resid<br>tion, one dwelling and ha                            |                           | The whole building is<br>a residential building<br>and has NHCover.    |
| Hospital level care<br>accommodation*<br>(providing a higher<br>level of rest home<br>care) | odation*building comprising50%residentiang a higherone dwellingand has N                   |                           | The whole building a residential building a and has NHCover.           |
| Residents' chapel   | idents' chapel Appurtenant structure n/a<br>to the entire<br>retirement village<br>complex |                           | This is included in<br>cover for the<br>retirement village<br>complex. |
| Apartment-style<br>accommodation  | One residential<br>building containing<br>four dwellings                                   | More than<br>50%          | The whole building is<br>a residential building<br>and has NHCover.    |

\*In this example, these two buildings provide long-term accommodation for the elderly. A building (or part of a building) that provides long-term accommodation for the elderly is a dwelling under <u>section 6(2) of the NHI Act</u>.

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Page 155 of 427 | NHC Assessment Manual – NHI Act



# 9. Unsafe properties

## a. Overview

During the assessment, you may identify concerns about safety. You may need to address these concerns with the customer, occupants, neighbours, or in some cases, a relevant authority. Whenever a potential safety risk is identified, you must clearly record on the claim file all relevant details including conversations with customers, TAs (or authorised people),<sup>103</sup> and any other relevant parties.

This section is about properties that are unsafe to assess, access and/or occupy. Some unsafe properties also include a building:

- that is 'dangerous', 'affected' and/or 'insanitary' (defined under section <u>121</u>, 121A or <u>123</u> of the Building Act 2004);
- that is 'earthquake-prone' (defined under section 133AB of the Building Act 2004; and/or
- 'in a designated area', during a state of emergency or transition period (under section 133BC of the Building Act 2004).

Unsafe properties that include such a building may have an unsafe building notice (commonly referred to as a 'placard' or 'sticker').

# b. Unsafe building notices

An unsafe building notice may be your first indication that a property is unsafe. These notices are also commonly referred to as 'placards' or 'stickers'. We have used the term 'unsafe building notice' within this section. Some of these notices (usually red or yellow) restrict or prohibit anyone from accessing the property without prior approval from the relevant TA. Other notices (often white) may allow the property to be occupied even though the building may still be damaged. Whatever colour a notice is, you must check it carefully to determine:

- whether it restricts or prohibits your ability to enter the property; and
- how the notice may affect your ability to assess the residential building or land for natural hazard damage.

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<sup>&</sup>lt;sup>103</sup> In this section, when we refer to a 'TA (or authorised person)', we mean anyone authorised to act with the relevant powers under the <u>Building Act 2004</u> or the <u>Civil Defence Emergency Act 2002</u> (<u>CDEM Act</u>). This includes 'responsible persons' as defined in <u>section 133BJ of the Building Act</u> <u>2004</u>.

Page 156 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



### i. Who can issue an unsafe building notice and when?

An unsafe building notice may be issued either:

- by a TA under <u>section 124 of the Building Act 2004</u> if a building is 'dangerous', 'affected' or 'insanitary';
- by a TA under <u>section 133AR of the Building Act 2004</u> if a building is 'earthquakeprone'; or
- by a TA (or authorised person) under <u>section 133BT of the Building Act 2004</u> if a building is 'in a designated area' during a state of emergency (or transition period).

Unsafe building notices may be issued because of:

- the pre-existing condition of the property (e.g., an earthquake-prone<sup>104</sup> building, hoarding of property or animals, or an infestation);
- natural hazard damage (including any imminent damage<sup>6</sup>), and/or
- the risk of damage (e.g. rock fall or cliff collapse) that is not imminent.

# ii. When are unsafe building notices most commonly issued?

Few properties have a notice issued because of pre-existing conditions. It is more common after a natural hazard occurs for:

- properties to be unsafe, with buildings that are dangerous, affected and/or insanitary, and
- TAs (or authorised people) to apply unsafe building notices.

After a natural hazard occurs, unsafe building notices are often issued for damage affecting:

- multiple properties across a wide area or multiple areas. An example is buildings that are insanitary because of flood damage.
- one or a few neighbouring properties. An example is buildings that are dangerous or affected because of damage from a landslide.

# iii. What is the purpose of an unsafe building notice?

Each notice gives TAs (or authorised people) certain powers to manage the building damage and risks. They may apply a notice to a building to do any one or a combination of the following:

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<sup>&</sup>lt;sup>104</sup> As defined in <u>section 133AB of the Building Act 2004</u>.

#### Page 157 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- warn people not to approach the building;
- restrict or prohibit entry;
- require the customer to carry out certain work to make the building safe.

The unsafe building notice specifies the section of the Building Act that applies, who issued the notice and why. Notices issued under section 124 specify what repair work the customer needs to do to have the notice removed. Notices issued under section 133AR or 133BT only specify the risks or the site hazards that have been identified.

As a result of an unsafe building notice:

- the occupants may be required to evacuate the dwelling or part of it;
- the building may not be able to be entered for assessment; or
- urgent works and other risk mitigation measures may be required.

# c. Properties that are not safe to assess

You may determine that it is unsafe to start or continue a site assessment because of:

- the pre-existing condition of the property; and/or
- any natural hazard damage (including any imminent damage) that has affected it.

You may be concerned about the condition of:

- the building or land at the property to be assessed; or
- a neighbouring property affecting it.

You may identify safety concerns:

- during your initial contact with the customer;
- when arriving at site; or
- at any time during your site assessment.

A property may also be unsafe to assess for other reasons.

# d. Properties that are unsafe to access or occupy

While completing your site assessment, you may identify natural hazard damage or a pre-existing condition that may make the property unsafe to access or occupy.

Any property could be unsafe to access or occupy. It does not need to be a residential building with a valid NHCover claim.

# e. Dangerous, affected and/or insanitary buildings

The Building Act 2004 defines 'dangerous', 'affected' and 'insanitary' buildings.

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#### Page 158 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### i. Dangerous buildings (section 121)

Section 121 of the Building Act 2004 defines a dangerous building as follows:

- (1) A building is **dangerous** for the purposes of this Act if,—
  - (a) in the ordinary course of events (excluding the occurrence of an earthquake), the building is likely to cause:
    - (i) injury or death (whether by collapse or otherwise) to any persons in it or to persons on other property, or
    - (ii) damage to other property, or
  - (b) in the event of fire, injury or death to any persons in the building or to persons on other property is likely.

Section 121, Building Act 2004 - Meaning of dangerous building

### ii. Affected buildings (section 121A)

Section 121A of the Building Act 2004 defines an affected building as follows:

A building is an affected building for the purposes of this Act if it is adjacent to, adjoining, or nearby—

a) a dangerous building as defined in section 121; or

b) a dangerous dam within the meaning of section 153.

Section 121A, Building Act 2004 – Meaning of affected building

### iii. Insanitary buildings (section 123)

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Section 123 of the Building Act 2004 defines an insanitary building as follows:

A building is insanitary for the purposes of this Act if the building-

(a) is offensive or likely to be injurious to health because –

- (i) of how it is situated or constructed; or
- (ii) is in a state of disrepair; or
- (b) has insufficient or defective provisions against moisture penetration so as to cause dampness in the building or in any adjoining building: or
- (c) does not have a supply of potable water that is adequate for its intended use: or
- (d) does not have sanitary facilities that are adequate for its intended use.

Section 123, Building Act 2004 – Meaning of insanitary building



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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 159 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# f. Earthquake-prone buildings

Section 133AB of the Building Act 2004 defines an earthquake-prone building as:

A building or part of a building is earthquake prone if, having regard to the condition of the building or part and to the ground on which the building is built, and because of the construction of the building or part—

(a) the building or part will have its ultimate capacity exceeded in a moderate earthquake; and

- (b) if the building or part were to collapse, the collapse would be likely to cause—
  - (i) injury or death to persons in or near the building or on any other property; or
  - (ii) damage to any other property.

Section 133AB, Building Act 2004 – Meaning of earthquake-prone building

# g. Buildings in a designated area

If an area has been affected by an emergency, it can be 'designated' under <u>section</u> <u>133BC of the Building Act 2004</u>. Designating an area gives certain persons (known as 'responsible persons'<sup>105</sup>) powers to manage buildings within that area to protect lives, buildings, public thoroughfares and critical infrastructure.

Responsible persons then assess buildings within the designated area and apply:

- red or yellow section 133BT notices to restrict or prohibit access to any buildings with damage or risks that need to be managed; or
- white section 133BT notices to buildings that can be occupied even though they may still be damaged.

# h. Unsafe properties in practice

A TA (or authorised person) may already have carried out their assessment before your site visit and:

- applied an unsafe building notice to the building, or
- determined that the building is safe.

A property that does not have an unsafe building notice may still be unsafe to assess.

<sup>105</sup> Who the 'responsible person' is depends on the circumstances an area was designated under. Section 133BJ of the Building Act 2004 sets out who a responsible person is.

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Page 160 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## i. What if you identify that a property is unsafe to assess?

If you identify that a property is unsafe to assess, you must:

- stop the assessment immediately;
- take all reasonable steps to ensure the safety of occupants and members of the public;
- tell the customer and any other affected party such as occupants and, if necessary, neighbours, about your concerns and the steps you are taking;
- contact emergency services if required;
- notify the relevant authority if you think the building may be dangerous, affected or insanitary (see Section 9.h.iii
- What if you identify a building that may be dangerous, affected and/or insanitary? below);
- notify the claims manager;
- notify us;
- seek expert advice if required;
- record your concerns on the claim file;
- record any advice you give the customer about urgent works, in the assessment report and on the claim file;
- resolve safety concerns in accordance with our policies, your company's policies and any relevant legislation before continuing your assessment.

# ii. What if you believe a property may be unsafe to access or occupy?

If you believe a property may be unsafe to access or occupy, you should:

- tell the customer why; and
- consider whether a building at the property may also be dangerous, affected and/or insanitary. If so, follow the steps below.

# iii. What if you identify a building that may be dangerous, affected and/or insanitary?

Although it is rare, you may identify a building that you consider meets these criteria. Examples include a building at risk from:

- impact from rockfall;
- ongoing land movement (slow-moving or sudden);
- landslide regression;
- collapse of a retaining wall;
- collapse of a building or other structure;

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#### Page 161 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- hoarding of property or animals;
- an infestation.

If you believe the building may be dangerous, affected and/or insanitary (whether or not it is an earthquake-prone building or in a designated area), you must:

- immediately notify the relevant TA and record the details of the person you spoke to;
- follow our <u>Dangerous and Insanitary Building and Land Policy;</u>
- record all relevant information necessary to inform the relevant authority of your concerns. For an example form, see Appendix 4 Documentation examples.

If the property that you are assessing is affected by a neighbouring property, you must also inform the customer of your findings so they can take appropriate steps. This will likely involve:

- the customer engaging with their neighbour; or
- informing the neighbour yourself.

Once a TA has been notified that a building may be dangerous, affected or insanitary, they must investigate the building to determine whether to apply an unsafe building notice to it. This investigation may include obtaining any relevant reports, such as an engineering report.

# iv. Disclosing information

Under <u>section 22 of the Privacy Act 2020</u> 'Information privacy principle 10', you may make available any information you have to relevant third parties (e.g., police or medical providers) if you believe on reasonable grounds that it is necessary to prevent or lessen a serious threat to the life or health of any individual.

The Privacy Act defines 'serious threat' as:

...a threat that an agency reasonably believes to be a serious threat having regard to all of the following:

(a) the likelihood of the threat being realised; and

(b) the severity of the consequences if the threat is realised; and

(c) the time at which the threat may be realised"

Section 7(1), Privacy Act 2020

Under <u>Section 142 of the NHI Act</u>, we may make available any information we have if we believe on reasonable grounds that it is necessary to prevent or lessen a serious threat to:

- public health or public safety; or
- any individual's life or health.

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#### Page 162 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



In this context, 'serious threat' has the same meaning as in <u>section 7(1) of the Privacy</u> <u>Act 2020</u>.

Section 142 of the NHI Act does not limit the Privacy Act or any other right we may have to disclose information. If you are a member of NHC staff or our contractor, this means that even if section 142 authorises a disclosure, you must take care to disclose any personal information only to the extent necessary to lessen the threat to public safety or the life of the individual and:

in accordance with a purpose that information was obtained for;106

with the consent of the individual concerned; or

otherwise in accordance with the Privacy Act.

# i. When can you assess an unsafe property?

Resolving safety concerns may include eliminating the risk, or appropriately minimising the risk if elimination is not reasonably practicable. This may involve urgent works if you consider they are appropriate and would allow you to safely return and continue your assessment.

You should explain to the customer any reasonable steps that the customer should consider taking to make their property safe. This may require expert assistance. What steps are reasonable will always depend on the claim-specific facts. Examples include turning off electricity when there are exposed wires, propping up a retaining wall at risk of collapse, or fencing off an unsafe area.

Customers may carry out urgent works if they are able. However, the customer's insurer may also choose to arrange urgent works on their behalf. If you are assessing an 'extra care claim',<sup>107</sup> you should consider what additional support the customer may need to complete the urgent works. For information on urgent works, see the <u>Urgent Works Guide – NHI Act</u>.

The claims manager will keep the customer informed on the status of their claim. You should arrange a suitable time to assess their property when you can do this safely.

Where you have identified safety concerns, but it is still safe to carry out your assessment, you can continue, with a plan and the relevant approval. For example,

<sup>106</sup> Under <u>section 141 of the NHI Act</u>, 'property-related' information is taken to have also been collected for the purpose of making the information available (including to the public).

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Section 9 – Unsafe properties

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<sup>&</sup>lt;sup>107</sup> For a definition of 'extra care claim' and more information, see our <u>Extra Care Claims Policy</u>.

#### Page 163 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



the plan must include obtaining the relevant TA's approval to assess a property that has a notice restricting or prohibiting entry to the building.

### i. When can you assess a property with an unsafe building notice?

If the damage is a result of a natural hazard and the claim is valid, the property must still be assessed once it is safe to do so, because an unsafe building notice does not affect the claim.

Where the unsafe building notice restricts or prohibits entry, you must contact the relevant TA and obtain their approval to access the property so that you can carry out your assessment. You must only carry out your assessment when you can do so safely. You must develop a plan of how you will do this. This may include some urgent works that will eliminate or minimise the risks.

For example, if there is still a risk at the building, you could assess it under the instruction and observation of a structural engineer or other relevant compliance officer, subject to the TA's approval. Alternatively, if the risk is from exposed wires, you may be able to assess the building after the customer has turned off the power.

If the building is dangerous, affected or insanitary, see our <u>Dangerous and Insanitary</u>. <u>Building and Land Policy</u>.

# j. When can an unsafe building notice be removed?

The customer is responsible for taking the necessary steps to make their property safe. These may include:

- engaging structural or geotechnical engineers for detailed evaluations (at their own cost);
- carrying out necessary repairs;
- providing evidence to the TA about their building's safety.

When the customer has taken the required action, the TA reassesses the building in accordance with its policies (for example, its dangerous building policy) and determines whether it can remove the notice.

Only a TA may change or remove the notice.

If the customer asks you what they need to do to have the notice removed, refer them to the authority that issued it.

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Page 164 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# k. Unsafe property responsibilities

This table summarises who is responsible for key aspects of managing an unsafe property. See the individual sections above for details.

|  | TA (or<br>authorised<br>person) | Customer | NHC or our<br>agent |
|--|---------------------------------|----------|---------------------|
| Determine whether a building is<br>safe to assess for natural hazard<br>damage |                                 |          | ~                   |
| Develop a plan to assess natural<br>hazard damage safely                       |                                 |          | ✓                   |
| Determine whether a building is safe or unsafe                                 | ~                               |          |                     |
| Issue unsafe building notices  | ~                               |          |                     |
| Change unsafe building notices   | ~                               |          |                     |
| Take the necessary steps to make the property safe                             |                                 | ~        |                     |
| Provide evidence to the TA that the property has been made safe                |                                 | ✓        |                     |
| Remove unsafe building notices   | $\checkmark$                    |          |                     |



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Section 9 – Unsafe properties



Page 165 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# 10. Planning for a site assessment

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manuals – Residential Buildings – NHI Act and Residential Land – NHI Act, and all sections within this Manual. In all customer interactions, use appropriate soft skills.

# a. Overview

Planning is an essential step in the assessment process. It ensures a complete record of the natural hazard damage is captured efficiently. Effective planning also helps to achieve timely claim resolution for the customer.

You should consider whether the assessment is within your experience and capabilities<sup>108</sup> and whether you have the necessary knowledge of relevant legislation, e.g. the <u>NHI Act</u> and the <u>Building Act 2004</u>. You should also consider whether you will need support from a more experienced assessor; sometimes it will be appropriate to reassign the claim to them.

It is important to develop a plan that is appropriate based on what you know about the type and extent of the loss, the information that you need to gather, the activities that you need to carry out and any experts who you may need to engage. Consider how you might assess any damage that may be responded to under the private insurance policy at the same time. You should also consider any agreed time frames and reporting requirements. Start planning the moment you are assigned the claim and continually review your plan throughout the assessment. Your plan needs to be flexible to allow for all new information as it becomes available.

Your plan should include:

- reviewing the claim file, e.g. existing claim information, insurance and claimant details;
- researching the property;
- checking the priority of the assessment;
- considering health and safety matters;
- establishing whether the claim needs extra care;<sup>107</sup>
- reviewing the loss details;

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Section 10 – Planning for a site assessment

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<sup>&</sup>lt;sup>108</sup> See Section 1.h.ii Capabilities.

#### Page 166 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- checking the background, including whether previous claims have been made;
- confirming that the basic requirements of the claim are met;
- reviewing event information.

# b. Assessment preparation

### i. Review claim file

Before contacting the customer, you must be familiar with the claim facts as reported by the customer to date. Obtaining these includes:

- reviewing the general claim information, e.g. date of loss, date the claim was made, type of natural hazard;
- reading all file notes before contacting the customer;
- reviewing any information supplied by the customer.

Being familiar with the claim facts allows you to clarify and confirm these facts and obtain any necessary additional information during the assessment.

### ii. Research the property

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Obtain publicly available information:

- to review the property for age, type, and materials, construction method, section size and any notable geographical features;
- to establish whether there are multiple properties that have been affected by the same natural hazard damage. In such cases, additional considerations will apply.<sup>136</sup>
- for efficient and effective assessment planning, e.g. for remote properties or assessing multiple claims in a particular area, to determine travel times, timing of appointments or access;
- as an assessment tool, e.g. to measure an access way or as the basis of the site sketch.

Some examples of sources for the above information include:

• the RT – to understand the extent of the insured person's land (e.g. easements, shared access, size and shape) and identify any notices that may affect the claim





Section 10 – Planning for a site assessment

QBE



#### Page 167 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



(e.g. give grounds to decline,<sup>59</sup> limit or cancel NHCover, or identify other interests<sup>109</sup> in the claim).

- eMap (CoreLogic);
- Google Street View;
- Oneroof.co.nz;
- Homes.co.nz;
- the local TA's geographic information system (GIS) viewer to see if clear aerial information is available;
- GNS data for earthquake claims, to review for events matching the date of loss.

### iii. Check the priority of the assessment

The claims manager will indicate the expected timeframe for contacting the customer and the reasons for that timeframe , e.g.:

- health and safety issues;<sup>128</sup>
- whether the claim needs extra care;<sup>69</sup>
- the type and extent of damage.

You must consider these factors throughout the assessment process because they may change or become more evident as the assessment progresses.

### iv. Review health and safety information

At this stage of the assessment, steps to take when deciding whether it is safe to visit include:

- checking the claim file for any noted site hazards;
- considering the information the customer has provided;
- reviewing information supplied by other parties, e.g. a section 124 notice, a section 133AR notice or section 133BT notice under the Building Act 2004, red and yellow stickers (unsafe building notices);

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Section 10 – Planning for a site assessment

<sup>&</sup>lt;sup>109</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 9 Who is the NHCover claim</u> <u>settled with?/NHC Claims Manual – Residential Land – NHI Act, Section 10 Who is the NHCover</u> <u>claim settled with?</u>.

#### Page 168 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



• reviewing any other expert advice, e.g. initial structural assessment (ISA report).

We have classified site hazards in the following way:

- Contamination, for example:
  - liquefaction;
  - sewage;
  - asbestos;
  - o broken or disrupted gas mains;
  - silica dust;
  - volcanic ash;
  - storing of toxic substances;
  - methamphetamine;
- Restricted access, for example:
  - section 124 notice;
  - section 133AR notice;
  - section 133BT notice:
  - dangerous building requiring TA assessment;
  - military cordon;
  - police or TA restrictions;
- Unstable building, for example:
  - damaged or fallen chimney;
  - debris;
  - unstable structures;
  - o confined spaces with liquefaction, mould, live wires, or debris;
- Unstable land, for example:
  - damaged access way;
  - rock fall or mud slides:
  - uneven ground;
  - undulating ground;
  - overgrown land.

Use this information to make the customer aware of their responsibilities for their safety and that of others.<sup>22</sup>

#### Establish whether the claim is an 'extra care claim' v.

Any person dealing with an NHCover claim:

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Section 10 - Planning for a site assessment

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#### Page 169 of 427 | NHC Assessment Manual – NHI Act



- must take reasonable steps to identify claims that need extra care based on the specific circumstances of the homeowner, occupant of the property or third party who may be directly affected by the claims management process (extra care claim).
- should comply with your organisation's guidelines (as agreed with NHC) for managing extra care claims.<sup>69</sup>

### vi. Review the loss details

Look for:

- photos of damage;
- correspondence between the customer and insurer about the claim;
- quotes;
- invoices and the claims lodgement form filled out by the customer;
- the date of loss.

### vii. Check the background and whether previous claims have been made

Check prior building and/or land claims for anything relating to previous assessments that might affect the current claim.

If there are prior claims, look for any similar damage to the current claim and check assessment reports, statements of claim, photos, engineering reports, legends, sketches, scope of works and settlement documents.

### viii. Confirm that the basic requirements of the NHCover claim are met

Typically, it will have been confirmed before the assessment that the basic requirements<sup>110</sup> of the NHCover claim have been met. However, in some instances, e.g. an urgent assessment, this may not occur. If at any time during the assessment you identify that a claim may not meet these requirements, gather all relevant information for the claim file and notify the claims manager so they can decide the claim outcome.









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Section 10 – Planning for a site assessment

QBE



<sup>&</sup>lt;sup>110</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act Section 3 Is the NHCover claim valid?/NHC</u> <u>Claims Manual – Residential Land – NHI Act, Section 3 Is the NHCover claim valid?</u>

#### Page 170 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### ix. Review event information

We routinely gather information about natural hazard damage that is likely to occur or already has. We will share this information with your organisation (subject to sections <u>141</u> and <u>142</u> of the NHI Act). You should use it to guide and support your event response planning and assessment approach.

This information can provide:

- an early indication of the location and likely extent of damage;
- a general view of the type of damage that may be expected to properties within those areas; and
- a clearer understanding of the situation over time.

The types of information and organisations we gather information from include those in the following table.



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Page 171 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 4: Information sources and types of information

| Source   | Type of information   |
|--|---|
| Private insurers and our claims teams  | Field observations, claims call volumes, number and nature of claims made   |
| Partner structural and geotechnical engineers  | Area-wide assessment information, e.g. field<br>observations, aerial photography and light<br>detection and ranging (LiDaR)     |
| <ul><li>GNS Science Te Pū Ao</li><li>GeoNet</li></ul>  | Characteristics of the natural hazard that<br>has occurred (earthquake, landslide,<br>volcanic activity, hydrothermal activity) |
| MetService   | Severe weather warnings or situation awareness  |
| National Emergency<br>Management Agency (NEMA)   | Warning and impact information,<br>particularly for tsunamis and severe<br>flooding   |
| <ul> <li>Local authorities</li> <li>Civil Defence Emergency<br/>Management (CDEM)</li> <li>Supporting agencies, e.g.<br/>New Zealand Police,<br/>FENZ, USAR, Waka Kotahi<br/>NZ Transport Agency<br/>(NZTA)</li> </ul> | Information regarding local impacts,<br>including flood reports, e.g. group situation<br>reports.                               |
| United States Geological Survey<br>(USGS)  | Ground shaking maps   |

We analyse the data we have gathered and provide the relevant organisations with the relevant outputs, e.g.:

- claim lodgement analysis, which provides data on claim lodgement volume over time and other relevant claim information.
- loss modelling, which:
  - for earthquakes, analyses the characteristics of the earthquake to estimate the likely claims volume and extent of damage that can be expected by groupings and geographic boundaries; and

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Section 10 – Planning for a site assessment

vero

QBE



#### Page 172 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- for other natural hazards, provides loss estimates using available information and cross-referencing with existing GIS data.
- strata modelling, which:
  - provides a visual representation of the loss modelling to highlight the worst affected areas based on the expected levels of structural damage within an area unit.
  - enables triaging of customers based on the expected extent of property damage within geographical areas (strata) to help determine the priority, appropriate damage assessment methodology, and claim management approach.
  - provides planning indicators including the likely technical resources needed to assess properties within a strata band.
  - alongside other critical information, supports determining the extent of invasive assessment required to identify non-visible structural damage.

# c. Customer/assessor first contact

# i. Review key information (list of information you should have before calling)

- Current claim details
- Previous claim details including photos, sketches, and specialist reports
- Property details
- Notes on whether the claim needs extra care4
- Health and safety information, e.g. details of any site hazards
- Any other relevant notes and documents

### ii. Make the call

The purpose of the call is to:

- inform the customer about the claims assessment process;
- validate the information on the claim file and obtain additional information from the customer relevant to the claim;
- where necessary, arrange a site assessment to progress the claim.

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The detail discussed and the direction of the phone call is guided by the specifics of

AA Insurance









Section 10 – Planning for a site assessment



#### Page 173 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



the claim and the needs of the customer. For extra care claims,<sup>4</sup> consider what additional support the customer may need. During the call, determine the amount of information required to progress the claim and which information can be obtained at a later stage.

Any customer contact must adhere to privacy requirements and any other applicable standards, which we may advise you of from time to time or which may form part of a third party provider's processes. For further details, see the <u>Privacy Act Guide – NHI</u> <u>Act</u>.

Gather information to prepare for the assessment. This will include the types of equipment you need to take to site and the time to allow for the assessment. The type of information that is commonly gathered at this stage of the claims process is set out below.

- Determine the type and extent of damage to the property, including:
  - whether the damage extends beyond their property;
  - o whether any repairs have been completed at the property;
  - $\circ\;$  whether the customer is aware of any prior claims;
  - whether there are any urgent works that the customer has carried out or is intending to carry out;
  - o any safety concerns the customer may have.
- For land damage, determine its location in respect of the residential building.<sup>111</sup>
- Gather general property information:
  - the size of the dwelling or residential building;
  - whether there is damage that affects multiple properties or damage to shared property or shared land – consider whether a multi-party approach<sup>112</sup> to the assessment is required;
- Confirm directly with the customer any health and safety concerns and update the claim file.
- Determine whether there has been any change to the need for extra care on the claim and update the claim file if required.
- Determine whether a site assessment is required. You may be able to determine this based on the information obtained, e.g. no natural hazard

<sup>&</sup>lt;sup>112</sup> See the <u>Multi-party Land Approach Guide – NHI Act</u>.



Section 10 – Planning for a site assessment

QBE

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<sup>&</sup>lt;sup>111</sup> See <u>NHC Claims Manual – Residential Land – NHI Act, Section 5 Is there an insured 'residential building'?</u>.

#### Page 174 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



damage, or if minor damage and repairs have already been carried out by the customer.

# d. Site visit preparation

### i. Consider whether a second assessor or specialist is required

Consider whether the claim requires a second assessor or specialist at the first visit. Reasons for this can change and can include factors such as safety, technical expertise, access and efficiency for large or complex assessments. For example, if there is severe land and building damage, consider engaging a geotechnical engineer and structural engineer (if applicable), and whether invasive investigations are required. In all cases, you should make this decision in accordance with guidance that we will issue from time to time. See Section 7 Engaging experts in this Manual.

### ii. Gather equipment

In all situations, consider all of the available information in determining what equipment you will require for your assessment, e.g. if you consider that a floor level check is likely to be needed, ensure you have a zip level altimeter with you. The decisions will be shaped by the technology and other capabilities that your organisation may have, e.g. digital or paper-based.

Take time to consider what you already know about the property, the type of natural hazard, and the damage that has occurred. Then consider the equipment that you will need. This will include your identification card (ID card), phone, camera, good quality LED torch, pen or pencil, graph paper, measuring tape, and personal protective equipment (PPE) if required (in which case the minimum requirement is a high visibility vest, safety boots, hardhat, overalls, safety glasses, gloves, mask, hand sanitiser and gumboots).

Always check that the equipment is appropriate and fully functioning, e.g. calibrated, and that you know how to use it.

Common equipment you should consider for assessments includes but is not limited to:

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TOWER





Section 10 – Planning for a site assessment

#### Page 175 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- laser measure;
- zip level altimeter;
- spirit level or digital level;
- a self-levelling laser (preferably with a receiver);
- ladder;
- crack gauge;
- binoculars;
- measuring wheel;
- laser rangefinder.

### iii. Consider health and safety

Any person dealing with an NHCover claim must comply with the <u>HSWA</u> in all relevant respects. See:

- Section 1.h.v Health and safety for further details on health and safety expectations of those involved in the assessment process; and
- Section 7 Engaging experts.

Consider health and safety at each stage of planning for an assessment.

Based on the information obtained so far, record anything that is relevant in your risk assessment for the property and planned site visit.

### iv. Consider urgent works

If in your review of the claim file you identify a situation where the customer should consider carrying out urgent works to make their property safe, sanitary, secure, or weathertight, and it is safe for them to do so, advise the customer of your concerns and any steps they should consider taking. Examples of urgent works include:

- turning off power where there are exposed wires;
- repairing a blocked toilet;
- boarding up a broken window;
- putting tarpaulins over holes in the roof or walls;
- placing a tarpaulin over a landslide headscarp to redirect overland water flow.

When advising the customer, consider urgent works in the context of the overall

UNCLASSIFIED

Section 10 – Planning for a site assessment

QBE











#### Page 176 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



circumstances and condition of the property to ensure that urgent works are not undertaken unnecessarily.

Advise the customer that they will need to pay for any urgent works that they authorise or carry out. If the customer does not have the means to pay for urgent works, see the <u>Urgent Works Guide – NHI Act</u>. Any reimbursement of the cost for urgent works is always subject to there being a valid claim that is accepted. The cost of any urgent works is taken into account when calculating the building or land claim entitlement (subject to the applicable building or land cover cap).

If you consider that a property is unsafe, see Section 9 Unsafe properties. For more information about urgent works, see the <u>Urgent Works Guide – NHI Act</u>.



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Section 10 – Planning for a site assessment







Page 177 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# 11. Carrying out a site assessment

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manuals – Residential Buildings – NHI Act and Residential Land – NHI Act, and all sections within this Manual. In all customer interactions, use appropriate soft skills.

# a. Arrive at site

- 1. Before entering the property, stop on the street outside and check for obvious site hazards.
- 2. Arrive early and park in an appropriate location, ensuring you can exit easily.
- 3. Ensure page 1 of your Site Risk Assessment form is completed.
- 4. Ensure you have your ID card, equipment, the customer's file, and other relevant documents.<sup>67</sup>
- 5. As you approach the property:
  - o look at the residential building and land in general;
  - note any immediate health and safety issues;
  - o observe exit pathways.
- 6. Greet the customer and introduce yourself, showing your ID card at the same time.
- Briefly explain the site assessment process, ask any relevant questions before starting, e.g. who is present, and ensure all are aware of your presence.
   Explain that you will be making notes and taking photographs (and in some cases, video) for use in the claims review process.
- 8. Confirm existing known health and safety issues with the customer and check for any new issues.

# b. Discuss the claim with the customer and complete the relevant forms with them

1. Obtain the customer's account of the natural hazard event and when they first noticed the damage. Listen and clarify.

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Section 11 - Carrying out a site assessment













#### Page 178 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- 2. Confirm as much information as possible about the property, including how it is used, previous claims, damage and repairs. Most customers know a lot about their property and can provide supporting documents, e.g. receipts, invoices, TA documents, scopes of completed work, site plans, photos and specialist reports. You should ask the customer if they have any supporting documents, take a copy and upload them to the claim file with the customer's permission.
- 3. Ask the customer for any relevant information about the immediate area, e.g. recent infrastructure work or geological features. This information can provide useful context.
- 4. Take note of anything else that might be relevant, e.g. whether the claim needs extra care.<sup>4</sup>
- 5. Ensure you have a good understanding of the circumstances of the claim before determining whether damage is covered or not.

# c. Complete the site assessment

- 1. Have the customer accompany you on the inspection if it is appropriate, practical and safe to do so, and invite them to show you where the damage is on the property.
- 2. Inspect all the damage reported by the customer first, systematically working your way from one end of the property to the other and being guided by the needs of the customer. Check and ensure that you have completed a full assessment.
- 3. Consider whether it is appropriate to do a walkthrough of the entire property to confirm the customer's description of natural hazard damage, e.g. if the customer is unsure whether they have any other damage.
- 4. When assessing, look for building<sup>113</sup> or land<sup>114</sup> that appear to have suffered a material change as a result of the natural hazard. Material physical change includes change that is 'more-than-negligible', i.e. something beyond the minor, inconsequential or immaterial. Consider any damage in the context of

UNCLASSIFIED

Section 11 - Carrying out a site assessment





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<sup>&</sup>lt;sup>113</sup> See Section 3 Identifying natural hazard damage to a residential building in this Manual.<sup>114</sup> See 4 Identifying natural hazard damage to residential land in this Manual.

#### Page 179 of 427 | NHC Assessment Manual – NHI Act



the specific event, e.g. type and extent, including the appearance of age of the damage in relation to the date of loss. Keep an open mind.

5. If, at any time during your assessment, you identify a situation where the customer should consider carrying out urgent works to make their property safe, sanitary, secure, or weathertight, and it is safe for them to do so, advise the customer of your concerns and any steps they should consider taking.

Examples of urgent works include:

- o turning off power where there are exposed wires;
- repairing a blocked toilet;
- boarding up a broken window;
- o putting tarpaulins over holes in the roof or walls;
- placing a tarpaulin over a landslide headscarp to redirect overland water flow.

When advising the customer, consider urgent works in the context of the overall circumstances and condition of the property to ensure that urgent works are not undertaken unnecessarily.

Advise the customer that they will need to pay for any urgent works that they authorise or carry out. If the customer does not have the means to pay for urgent works, see the <u>Urgent Works Guide – NHI Act</u>. Any reimbursement of the cost for urgent works is always subject to there being a valid claim that is accepted. However, the customer's insurer may also choose to arrange urgent works on the customer's behalf and deduct the cost from any cash settlements made on the claim.

If you consider that a property is unsafe, see Section 9 Unsafe properties in this Manual. For more information about urgent works, see the <u>Urgent Works Guide</u> <u>– NHI Act</u>.

- 6. You should prioritise the assessment (including engaging any appropriate experts) if you have concerns that there is:
  - a risk of serious imminent damage to the residential building or injury to people; or
  - $\circ\;$  the potential for damage to affect other properties.
- 7. Consider whether invasive investigations are required to accurately assess the damage and appropriate remediation strategy, i.e. if you believe, based on your observations or expert advice, there is concealed damage that is likely to change the remediation strategy.

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Section 11 - Carrying out a site assessment

#### Page 180 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- 8. Identify any appurtenant structures to the residential building.<sup>115</sup>
- Consider whether any further damage would be more likely than not to occur in the next 12 months as a direct result of the natural hazard (imminent damage).<sup>6</sup>
- 10. If there is damage to multiple properties, e.g. shared access ways, additional considerations apply.<sup>136</sup> You should continue your assessment of the property and advise the customer that you may not be able to finalise it until you have a clear understanding of the full extent of the damage, including any damage beyond the insured person's land.
- 11. Gather more information if at any time during the site assessment, you identify potential grounds to:
  - decline the claim in part or in full under <u>sections 68 to 77 of the NHI Act</u>, or
  - o pursue subrogated recovery action against potentially liable third parties.

Consider whether:

- $\circ~$  you can obtain this information yourself, or
- you will need to engage an appropriate expert to provide this information.

Information that may help you determine whether a third party is liable includes:

- relevant expert advice (e.g. a geotechnical engineering report for landslide damage)
- o building and resource consent information
- $\circ~$  a timeline of who did what, when and how
- parties' accounts of events (e.g. the customer, contractors, and any third parties)
- photographs and videos.

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Where you consider that there may be grounds for subrogated recovery, you may choose to engage further expert advice on the fact-specific circumstances. Record a summary of the facts and all supporting information and save a copy to the claim file.

UNCLASSIFIED

Section 11 - Carrying out a site assessment









<sup>&</sup>lt;sup>115</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 4.D What is an 'appurtenant</u> <u>structure'?</u>.

#### Page 181 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- 12. Determine which experts<sup>5</sup> are required. Some typical experts engaged in assessing claims are:
  - o structural engineers;
  - geotechnical engineers;
  - registered valuers.

# d. Record damage

The damage that must be recorded is described in more detail in Section 3 Identifying natural hazard damage to a residential building and Section 4 Identifying natural hazard damage to residential land<sup>60</sup> in this Manual.

You must make a full and accurate record of your assessment, recording all relevant and necessary information to make your settlement recommendation.

Document the natural hazard damage to the property, and then make a record of any other relevant damage assessed, e.g. damage not caused by a natural hazard, or not caused by the natural hazard claimed for.

- Take detailed notes of your observations and all relevant claim facts that you collect.
- Complete a sketch recording the damage to the residential building and any associated residential land where applicable.
- Take photographs (optionally supported by video) to support your assessment report findings of any damage that has or has not occurred as a direct result of a natural hazard occurring.

## i. Photographs and videos

Photographs are part of the information you must collect during your site assessment to support your visual observations, sketch and assessment report. You may also record video.

Advise the customer that you will be taking photographs (and recording video, if applicable), obtain their permission, and tell them that they are entitled to a copy of any photos or video taken. All photographs (and any video) must have a clear purpose and be relevant to your assessment. Some customers may want to move personal items so they are not included in the photographs (and any video) taken. For further information on the standard for photographs (and video), see Section 13 Assessment documentation standards in this Manual.

Your photographs (and any video) may be used for assessing the claim, identifying and costing works required and related purposes including the following:

UNCLASSIFIED

Section 11 - Carrying out a site assessment

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CONT ICNZ Insurance Council of New Zealar











#### Page 182 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- As evidence of natural hazard damage;
- As evidence of pre-existing conditions;
- To record structural building issues that may need expert advice;
- To record land damage that may need expert advice;
- To provide accurate service request quotes (for experts);
- To prepare a scope of works for the remediation strategy;
- To prepare an undepreciated value costing for any damaged insured land structures;
- To resolve customer queries;
- To engage experts (e.g. engineer, builder or contractor) to carry out repairs.

Photographs (and any video) may be shared with a range of people for the purposes of assessing and responding to the claim, including:

- claims manager;
- structural engineer;
- geotechnical engineer;
- valuer;
- estimator;
- NHC;
- surveyor;
- customer.

How many photographs you take (and how much video you record, if applicable) will depend on the type, extent and complexity of the damage being assessed. If there has been no damage or minor damage, you might take only a few mid-range and close-up photographs (and a short video, if applicable) of any areas of interest. For more severe damage, you should take a greater number of photographs (and amount of video) in a more structured manner.

1. Consider site access requirements and associated costs for any potential remediation strategy recommended by the expert, e.g. enabling works, specialised machinery.

UNCLASSIFIED

Section 11 - Carrying out a site assessment













#### Page 183 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



2. Record in writing any comments from the customer about non-accepted damage, including their agreement or disagreement.

# e. Explain findings to customer

When explaining your assessment findings to the customer, make it clear that you are collecting the facts that will form the basis of your recommendation to the claims manager. Before you make your final decision, the claims manager reviews the entire claim (including the assessment report and other property information such as the RT and claim details such as the date the claim was made) and ensures all legislative requirements have been met.

In completing the steps described in this section, you must consider the individual circumstances of the customer and the claim and tailor your discussion to their needs.

It is your role to inform the customer about what is natural hazard damage and what is not. Explain your findings clearly in language that the customer understands. Be prepared to try another approach or rephrase if the customer does not understand.

Make sure the customer knows the assessment recommendation:

- Accepted
- Partially accepted
- Not accepted

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Invalid

These recommendations are defined in the next section.

In cases where you have not reached a decision for any aspect of your assessment outcome, advise the customer that you will need to seek clarification from appropriate experts, and agree the timeframe for this. For example, this may occur in relation to:

- a building or structure's appurtenance to the residential building;
- an unfamiliar building element;
- the extent of the insured person's land;
- any information obtained during the assessment that may require further investigation in accordance with <u>section 67 of the NHI Act</u>.<sup>16</sup>

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Section 11 - Carrying out a site assessment

QBE

CONT ICNZ Insurance Council of New Zeala



#### Page 184 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



## i. Definitions of assessment outcomes

You may recommend that the claim be accepted (in full or in part), not accepted, or found invalid. These outcomes are defined as follows:

## a. Accepted

The claim is:

- settled by payment of a cash amount;
- settled by reinstatement, replacement, or relocation;
- below the amount of the applicable excess, therefore no amount is paid;
- nil, as the fire insurance contract provides 'ground-up' cover. The private insurer has paid for all the natural hazard damage within the terms of the contract and there is nothing else for us to pay; or
- accepted in part. The claim is accepted in part and the other part of the claim is declined under <u>sections 68 to 77 of the NHI Act</u>.

### b. Invalid

The claim is invalid for one or more of the following reasons:

- there is no natural hazard damage to the residential building or land;
- an insured person with an insurable interest in the property concerned did not make the claim (or authorise another party to make it);
- the claim made does not say that natural hazard damage has occurred to insured property, i.e. property covered by the <u>NHI Act</u>;
- the claim has not been made to us (or a person we authorised to receive the claim) or the customer's private insurer on or before the extended claim date (the two-year time limit);
- there was no fire insurance contract or direct NHCover over the property concerned in force at the relevant time;
- the NHCover had been cancelled at the relevant time.

## ii. Recommending that damage be accepted (in full or in part)

If your recommendation is that the damage be accepted in full:

- clarify each area of damage that you consider should be accepted and explain your reasoning.
- ask the customer if they have any questions about the acceptance recommendation.

UNCLASSIFIED

Section 11 - Carrying out a site assessment











### Page 185 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



If your recommendation is that the damage be accepted in part:

- show the customer each area of damage that you consider should be partially accepted and each area that you consider should not be accepted. Explain your reasoning thoroughly.
- ask the customer if they have any questions about the partial acceptance recommendation. If the customer disagrees with your recommendation of partial acceptance, advise them that you will follow the internal processes to help address their concerns.

## iii. Recommending that damage not be accepted

- 1. Show the customer each area of damage that you consider should not be accepted as natural hazard damage, and thoroughly explain why.
- 2. Ask whether they have any questions about your recommendation that the damage not be accepted.
- 3. If the customer disagrees with your recommendation that the damage not be accepted, advise them that you will follow the internal processes to help address their concerns.

## iv. Recommending that the claim be found invalid

There are a number of reasons why a claim may be invalid. Of these, you will typically recommend that a claim be found invalid because there is no natural hazard damage.

- 1. You should inspect all areas of the property before advising the customer that there is no natural hazard damage. This will ensure you have taken all observations into account.
- 2. If there is no natural hazard damage to the property, explain this thoroughly at the time of the inspection.
- 3. If the customer disagrees with your recommendation that the claim be found invalid, advise them that you will follow the internal processes to help address their concerns.

UNCLASSIFIED

Section 11 - Carrying out a site assessment













Page 186 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## v. Quantifying residential building damage

Advise the customer of the assessed natural hazard damage to the residential building based on your visual assessment. Make sure you include any specific requirements, e.g. asbestos testing.

For the majority of residential building claims, you can provide guidance on the extent of the remediation strategy on site.

For more complex building claims, e.g. damage to at-risk building systems, where the remediation strategy is restricted building work, or structural damage, consider consulting appropriate experts.<sup>5</sup>

## vi. Quantifying residential land damage

In some cases, the remediation strategy is conceptual, e.g. where it has been provided by a geotechnical engineer for a land claim.

For minor land claims (removal of debris only, flooding inundation, scour, cracking):

- it is unlikely that you will need to engage an engineer;
- if the repair cost of the damage is less than the excess or it is clear that the repair cost will be significantly less than the value of the damaged residential land, you may not need to engage a valuer;<sup>116</sup>
- you can usually provide guidance on the remediation strategy onsite.

For all other land claims:

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- in almost every situation, you will need to engage an engineer;
- the engineering report will provide a conceptual remediation strategy that you will use to cost the repair of the physical damage and the removal of any imminent damage risk;
- once the engineering report is received, if there is natural hazard damage, you must engage a valuer.

For all land claims, the maximum we can pay is determined by <u>section 43 of the NHI</u> <u>Act</u>. See the <u>Calculating Settlement Guide – NHI Act</u>. Provide the customer with an overview of the land cover cap to give them context of why a valuer is being engaged. The claims manager will have already provided the customer with information on land settlement requirements.

UNCLASSIFIED

Section 11 - Carrying out a site assessment









<sup>&</sup>lt;sup>116</sup> In some cases, you may use a notional value. For more information, see the <u>Land Valuation Guide –</u> <u>NHI Act</u>.

#### Page 187 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# f. Conclude the assessment visit

- 1. Summarise other key facts in relation to their claim, e.g. basis of settlement (the actual loss suffered or the building or land cover cap), excess, and the possible outcomes of a claim if accepted (e.g. cash settlement or repair).
- 2. Explain the next steps and the timeframe for each:
  - You will prepare an assessment report.
  - The engineer or valuer will prepare reports (if required).
  - You will prepare a scope of works.
  - You will complete a costing of the undepreciated value of any damaged land structures (for a land claim if required).
  - You will send your recommendation to their claims manager.
  - Their claims manager will contact the customer to advise them of the decision on the claim outcome.<sup>117</sup>
- 3. Give any relevant information sheets to the customer.
- 4. Check all forms are complete, relevant information is recorded and equipment is accounted for.
- 5. Ask whether the customer has any further questions and address them before leaving site.
- 6. If follow-up is required, do so within the agreed time frame.

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Section 11 - Carrying out a site assessment













<sup>&</sup>lt;sup>117</sup> This is a referable decision under the NHI Act.

Page 188 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# 12. Post-site assessment actions

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manuals – Residential Buildings – NHI Act and Residential Land – NHI Act, and all sections within this Manual.

# a. Update the claim details

Update the claim with a file note confirming that the assessment has been completed. Detail who was present, damage sighted, your findings, and next actions. Update the claim file with any noted site hazards<sup>22</sup> if required. Provide a brief overview of the assessment and next steps and timeframes to the customer and claims manager if required.

# b. Prepare the assessment report

For all claims, ensure that:

- the report is completed within agreed time frames;
- the claim number, customer details, date and your name are on the report;
- all relevant property information is accounted for, e.g. age, foundation, cladding, roof, and chimneys;
- the damage description is clear, concise, and unambiguous;
- if the damage is not accepted as natural hazard damage, your reasoning is clear;
- diagrams of the damage (whether accepted or not) are clear and well defined;
- visual aids, e.g. photographs, are included where required;
- the next steps are clearly outlined;

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• your assessment report adheres to our documentation standards.<sup>60</sup>

For land claims, also ensure that your sketch details the location of the damage as well as the location of the damaged land in relation to the residential building. The sketch should indicate the property boundary, identify any insured land structures and main access way (if applicable) and adhere to our documentation standards.<sup>60</sup> For land claims, a sketch may be an aerial photograph from the territorial or local authority's GIS records.



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Section 12 - Post-site assessment actions

CONT ICNZ Insurance Council of New Zeala

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Page 189 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# c. Determine the assessment outcome

Your assessment report will confirm the outcome of your site assessment and the next actions required. You will either:

- have sufficient information to prepare a scope of works (where applicable) and make a settlement recommendation; or
- require further information from appropriate experts,<sup>5</sup> e.g. geotechnical engineer and land valuer for land claims.

# d. Review expert reports

Where you have engaged an expert and have received their draft report, check that:

- your instructions have been followed;
- the expert has not commented outside their area of expertise, e.g. how the NHI Act should be interpreted regarding the claim;
- the expert's report complies with our general documentation standards.<sup>60</sup>

If necessary, return the report to the expert for amendment.

Other details depend on the type of expert report.

# i. Geotechnical report

Check the report for the following:

- Property details confirm:
  - $\circ~$  that any prior NHCover claims that have been identified are summarised;
  - that the property boundary and extent of the insured person's land and residential land are shown;
  - that where the report identifies a residential building (including any appurtenant structures) that identification is correct;
  - the general description of the land and natural features, e.g. soil type, elevations, cliffs, streams;
  - that any grounds to consider declining<sup>16</sup> a claim in full (or in part) under sections 68 to 77 of the NHI Act, or any grounds to consider pursuing subrogated recovery action against any potentially liable third parties, have been identified and are summarised.
- Damage confirm:

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- $\circ\;$  that you are satisfied that the correct loss cause has been identified;
- that the report correctly identifies any natural hazard damage as defined by the NHI Act;

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Section 12 – Post-site assessment actions

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#### Page 190 of 427 | NHC Assessment Manual – NHI Act



- that the description of damage accurately records any damage to insured land areas, land structures, or residential buildings;
- whether the engineer has identified and quantified any imminent damage to residential buildings or land.
- Conceptual remediation strategy check that the report provides a conceptual remediation strategy that:
  - reinstates the residential land by restoring its utility to immediately before the natural hazard occurred;<sup>118</sup>
  - removes any imminent damage risk that has been identified (or would repair the imminent damage as if it had actually occurred);
  - $\circ~$  is of sufficient detail to enable accurate costing.
- Visual aids check that the report includes visual aids, e.g. photographs and sketches, that support both the damage identified and the recommended remediation strategies.

Seek clarification from the expert if:

- there is an error;
- any part of the report findings is not clear; or
- you are unsure of the report conclusions, e.g. remediation strategy, appurtenant structures, or imminent damage risk.

If necessary, have the report amended.

## ii. Structural engineering report

Check that the purpose and scope of the report is clearly stated as well as the following:

- Property details confirm:
  - o that any prior NHCover claims that have been identified are summarised;
  - that if the report identifies residential buildings or land, that identification is correct;
  - the general description of the building and any key features, e.g. specific design, construction and materials.
- Damage details confirm:

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 that the report correctly identifies any natural hazard damage as defined by the <u>NHI Act;</u>

UNCLASSIFIED

Section 12 – Post-site assessment actions









<sup>&</sup>lt;sup>118</sup> See <u>NHC Claims Manual – Residential Land – Section 7.A.c.iii What is reinstatement cost?</u>.

#### Page 191 of 427 | NHC Assessment Manual – NHI Act



- that the description of damage accurately records the damage to any residential building;
- that the description of damage (location, size, extent) is consistent with your observations, e.g. the location or distribution of cracks in a concrete perimeter foundation;
- whether the engineer has identified and quantified any imminent damage to any residential building;
- that the expert has assessed all areas of concern for natural hazard damage and fully documented their findings, with supporting information, e.g. photographs, where required;
- that the report provides a clear rationale for the engineer's conclusions about whether natural hazard damage has occurred.
- Remediation strategy check that the report provides:
  - a remediation strategy<sup>132</sup> that reinstates the damaged building to the standard required under the <u>NHI Act</u> and meets all applicable legislative requirements, e.g. <u>Building Act 2004</u>, <u>building code</u>;
  - o details of whether parts of the building require repair or replacement;
  - full and clear explanation of the recommendations and repair options;
  - o sufficient detail to enable accurate costing.
- Visual aids check that the report includes visual aids, e.g. photographs and sketches, that support the damage identified and the recommended remediation strategies.

Seek clarification from the expert in any situation where:

- there is an error;
- any part of the report findings is not clear; or
- you are unsure of the report conclusions, e.g. the determination about whether damage is the direct result of natural hazard.

If necessary, have the report amended.

## iii. Valuation report

Check that the report includes:

property details – confirm that the following have been provided:

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- the RT reference, legal description, zoning and actual site area;
- the area of the 'area cap' (i.e. the district plan minimum area, or a 4000 m<sup>2</sup> site, whichever is applicable);<sup>64</sup>
- the value of the area cap, if the area of the area cap is smaller than the area of the damaged insured land.

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Section 12 – Post-site assessment actions

#### Page 192 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- damage details confirm that:
  - the site values have been provided as required in <u>section 43 of the NHI</u>
     <u>Act</u>;
  - the full extent of any damaged insured land areas that have been valued match the details stated in either the engineering report or your report, where applicable;
  - $\circ\;$  there is a description of any insured land that is damaged.

Seek clarification from the expert if:

- there is an error;
- any part of the report findings is not clear; or
- you are unsure of the report conclusions, e.g. the area of land valued is not consistent with the engineering report.

If necessary, have the report amended.

## iv. Survey specialist's report (for building)

Check that the report:

- shows the floor level surveys, verticality surveys and other levels that are in question, e.g. kitchen benchtop, ceiling and windowsills; and
- includes any necessary legend details, e.g. date of survey, scale used, direction of north.

## v. Survey specialist's report (for land)

Check that the report:

- shows the land structures or buildings that are in question, clearly showing their locations in relation to the property boundary; and
- includes any necessary legend details, e.g. date of survey, scale used, direction of north.

## vi. Other reports

For any other expert reports, you must ensure the expert has complied with your instructions, suitably addressed the matters the report was obtained for and complied with our general documentation standards.<sup>60</sup>

UNCLASSIFIED

Section 12 - Post-site assessment actions













Page 193 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# e. Prepare scope of works

For all claims, consider the following factors when preparing a remediation strategy<sup>132</sup> for the natural hazard damage to insured property, including any imminent damage:

- site access issues;
- the quantity of work for any given repairer, as smaller jobs for certain trades attract minimum charges;
- the number of visits required to effect repair;
- costs for transporting materials and contractors travelling to carry out the repairs in remote locations;
- the need for a specialised repairer, geotechnical engineer, structural engineer, architect or designer to prepare a remediation strategy for specialised repairs;
- professional and compliance fees where applicable;
- any specialist testing requirements, e.g. asbestos or electrical testing;
- health and safety requirements;
- enabling works or works necessary to effect the required repair, e.g. in repairing a deck that will require a handrail to comply with the current <u>building code</u>.

Base your remediation strategy on the damage information you have, including any assessment reports, specialists' reports, and any additional supporting information, e.g. photographs, diagrams and sketches.

A Licensed Building Practitioner should scope any restricted building work. At a minimum, the draft scope of works must be approved by a Licensed Building Practitioner. Restricted building work is work that is critical to make a home structurally sound and weathertight. You must use Licensed Building Practitioners to design this work, and they must either carry out this work or supervise it.

Your scope of works must be practical and meet the statutory requirements of the <u>NHI Act</u> and other relevant legislation. In all cases, you must follow our requirements<sup>132</sup> for approving scopes of work that we will advise you of from time to time.

If you are unsure of the correct remediation strategy, consider seeking expert advice.<sup>5</sup>

# f. Calculate the undepreciated value of damaged land structures

To determine the land cover cap under <u>section 43 of the NHI Act</u>, you must calculate the undepreciated value of any insured land structures that have suffered natural

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Section 12 - Post-site assessment actions

#### Page 194 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



hazard damage. Undepreciated value is the total cost that would be reasonably incurred at the time that the damage occurred<sup>119</sup> to construct a structure that is substantially the same as, but not better or more extensive than, the damaged one was when it was new. It does not need to comply with current building standards or applicable laws where such requirements would require modification of the structure from when it was new.<sup>120</sup> The undepreciated value costing is not intended to be used to:

- repair the damaged land structure; or
- construct a new land structure that would meet the current building standards.

To calculate the undepreciated value you must include:

- the cost of carrying out all construction work;
- the costs of complying with all applicable laws, other than those that would require the structure to be modified from when it was new; and
- other fees or costs payable in the course of constructing the structure (for example, consent fees) as if it complied with current building standards and applicable laws.

You must **not** include costs to:

- carry out any enabling works, e.g. costs to access the site, demolition and disposal (even if those works are necessary to enable the structure to be constructed),
- undertake any works required to bring the structure in line with any current building practices where those works would require modification of the structure when it was new, or
- cover any claim handling costs or any contingency allowances.

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Section 12 – Post-site assessment actions

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<sup>&</sup>lt;sup>119</sup> In some circumstances, the undepreciated value may be settled based on rates at a later date than the date on which the damage occurred according to <u>section 62(2)(b) of the NHI Act</u>.

<sup>&</sup>lt;sup>120</sup> For more information on this standard, see <u>NHC Claims Manual – Residential Land – NHI Act,</u> <u>Section 7.A.d.iv 'What is the undepreciated value of the insured land structures for the purposes of</u> <u>the land cover cap?</u>.

Page 195 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Example

A timber retaining wall, which would have required consent at the time of construction, has been damaged in an earthquake. The undepreciated value costing must include:

- the cost to construct the timber retaining wall at the time the damage occurred;<sup>121</sup> and
- any consent fees.

These must be at the rates applicable at the time the damage occurred.

The undepreciated value costing must not include the costs of:

- demolition and removal of the existing wall;
- any enabling works, including any site access restrictions;
- any works required to bring the retaining wall in line with any current building standards or applicable laws where those works would require modification of the structure from when it was new. An example is a handrail that would be required under the current building code but was not a requirement at the time the retaining wall was originally constructed.

# g. Prepare a settlement recommendation

The steps you have taken in planning and carrying out your assessment and post-site assessment actions will mean that you now have all the necessary information required to make your settlement recommendation.

The scope of works and valuation details will form the basis for your settlement recommendation. For more information on claim settlement, see <u>NHC Claims</u> <u>Manual – Residential Buildings – NHI Act, Section 8 How is an NHCover claim</u> <u>settled?/NHC Claims Manual – Residential Land – NHI Act, Section 9 How is an</u> <u>NHCover claim settled?</u>.

# h. Upload documents for the customer's claims manager

Ensure all documents you have collated during your assessment are available on the claim file.

For information on how to complete the settlement calculation, see the <u>Calculating</u> <u>Settlement Guide – NHI Act</u>.

UNCLASSIFIED

Section 12 - Post-site assessment actions

CONT ICNZ Insurance Council of New Zeala

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<sup>&</sup>lt;sup>121</sup> Unless a later date has been determined under <u>section 62(2)(b) of the NHI Act</u>.

Page 196 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# **13.** Assessment documentation standards

Before following the guidance in this section, ensure that you are familiar with the NHC Claims Manuals – Residential Buildings – NHI Act and Residential Land – NHI Act, and all sections within this Manual.

# a. Overview

For each assessment, the person dealing with the claim must complete and have available full documentation and evidence recording the findings of the assessment and the reasons for those findings.

We may notify, from time to time, the type and level of documentation that is required to be provided to us for each claim. Where there is a difference between our requirement and this Manual, our requirement will prevail.

# b. Assessment documentation requirements

This section explains the minimum documentation standards required in the assessment of NHCover claims. To comply with these requirements, you must retain any documentation used to assess an NHCover claim in accordance with the <u>Public Records Act 2005</u> and associated NHC policy and standards. For further details, see the <u>Recordkeeping Guide</u>.

Any organisation dealing with an NHCover claim must:

- keep full, complete and accurate records for that claim (and any other NHC matters they are working on);
- compile and have available the full claim file and any other information we require;
- ensure that all damage recorded in an assessment and the resultant supporting
  information, whether natural hazard-related or not, is supported by evidence. If
  possible, no assumptions are to be made. In cases where assumptions are
  necessary, they must be based on evidence, and the appropriate expert necessary
  to assess damage must be engaged. All reports presented to the customer must
  meet our required quality standards; and
- act in compliance with all relevant NHC policies and associated standards, and any applicable legislation, including the <u>Code of Insured Persons' Rights</u>.

In all cases, you will need to comply with your organisation's own internal processes and delegations, including the Fair Insurance Code.







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Section 13 – Assessment documentation standards

### Page 197 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



In gathering or preparing the assessment documentation, consider our requirements<sup>122</sup> for communications by private insurers acting on our behalf. One such requirement is that the communication may be:

- in two communications (one about the residential building claim and one about the building component that is covered by the private insurer for the same property); or
- in one communication (about both), provided the two components can clearly be understood separately.

The private insurer must set out clearly the different reasons for, and the effect (if any) of, the respective decisions to decline where:

- the relevant NHCover claim is declined under one of the grounds set out in <u>sections 68 to 77 of the NHI Act</u>; and
- the private insurer also declines the relevant claim under the fire insurance contract for the same property.

# c. Assessment documentation purpose and outputs

<u>Section 141 of the NHI Act</u> explains when we may collect information and how it may be used:

- (1) The Commission may collect information (including from authorised persons) for the purposes of performing its functions under this Act.
- (2) If property-related information is collected for that purpose, it is taken to have also been collected for the purpose of making the information available (including to the public).
- (3) This section does not limit the Privacy Act 2020 or any other right the Commission may have to collect of disclose information.
- (4) In this section, property-related information means information about property (whether generally or in relation to 1 or more identified properties), including information about—
  - (a) natural hazard damage to the property; and
  - (b) any claims made under this Act in relation to the property (including information about the assessed cost of replacing or reinstating damaged property, reinstatement methods, and settlement amounts).









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Section 13 – Assessment documentation standards



<sup>&</sup>lt;sup>122</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 10.A.c Advising the customer of the outcome of the residential building claim/NHC Claims Manual – Residential Land – NHI Act, Section 11.A.c Advising the customer of the outcome of the residential land claim.</u>

#### Page 198 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025

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<u>Section 58(1) of the NHI Act</u> also permits us to ask the customer to provide any information we reasonably believe we need to assess, decide or settle the claim (at the customer's expense).

(1) The Commission may, by written notice, request the insured person to give to the Commission, or produce for it to inspect, any information, document, or other thing that the Commission believes on reasonable grounds that it needs to assess, decide, or settle the claim.

Some examples of situations where we may use information collected in the course of carrying out an assessment include:

- settling a claim;
- natural hazard event planning; and
- research and education.

All decisions are also subject to audit by us. Assessment documentation serves as the basis for audit processes.

We share information:

- as permitted or required by the <u>Official Information Act 1982</u>, the <u>Privacy Act 2020</u>, <u>sections 141(2)</u> and <u>142 of the NHI Act</u>; and
- with parties who may require the information to complete, plan or quantify repairs.

# d. Assessment information capture

Information capture relating to the assessment occurs before, during and after the site assessment.<sup>123</sup> This information may be gathered by us and anyone authorised to deal with a claim on our behalf, in particular:

- the claims manager;
- the assessor; and
- any applicable third parties, including any experts engaged in assessing the claim.

When gathering information, anyone authorised to deal with a claim on our behalf must at all times be aware of the requirements of the <u>Privacy Act 2020</u>, including (among others) to:

• notify the customer of the information being collected and the purpose of that collection;

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Section 13 – Assessment documentation standards

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<sup>&</sup>lt;sup>123</sup> For details, see Section 10 Planning for a site assessment, Section 11 Carrying out a site assessment and Section 12 Post-site assessment actions in this Manual.

#### Page 199 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



- use the information collected only for the purposes it was collected for; and
- use reasonable security safeguards to protect the information against loss, improper access and other misuse.

For further details regarding the requirements of the Privacy Act, see the <u>Privacy Act</u> <u>Guide – NHI Act</u>.

In gathering this information, you should apply certain documentation standards as follows.

## i. General documentation standards

All documents that are created in assessing an NHCover claim must:

- have correct claim identifying details, e.g. damage location address, customer contact details, loss details;
- be concise, complete, accurate and factual;
- be professional and use correct spelling and grammar;
- comply with any privacy requirements<sup>124</sup> and any other applicable standards, which we may advise you of from time to time or may form part of your processes;
- be suitable and robust for all uses that the assessment documentation may be required for, e.g. claim settlement, managing queries, information requests, NHC quality assurance and reporting functions.

Any visual aids, e.g. sketches, photographs, or diagrams, that are provided must be clearly labelled. For land claims, a sketch may be an aerial photograph from territorial or local authority GIS records.

## ii. Assessment planning documentation standards

When first contacting the customer, record:

- the time and date of the call (if this is not system managed);
- that the person spoken to is authorised to act on the claim;
- the name of the person who will be attending the site visit;
- the customer's account of the event and damage relating to the claim;
- any health and safety concerns that the customer raises;
- whether any specialist tools, equipment or experts are required to access and assess the damage; and
- the time and date of the planned visit (where applicable).

If you determine that a site visit is not required, clearly record the reasons.

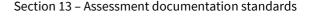
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<sup>&</sup>lt;sup>124</sup> See the <u>Privacy Act Guide – NHI Act</u>.

Page 200 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## iii. Site assessment documentation standards

When completing the site assessment, record:

- details of the parts of the building (where applicable), e.g. foundation, wall and roof cladding type and materials;
- details of the parts of the land (where applicable), e.g. land structures, property boundaries and appurtenant structures;
- a summary of the customer's concerns and their view of the damage to their property. Make special note of areas the customer says are damaged, but which are not considered natural hazard damage;
- each issue you observe and your findings about the cause of the damage;
- each area of damage, noting the product or material type;
- clear sketches and relevant photographs (see standards below) of areas of damage, both accepted and non-accepted, and any other property where appropriate; and
- the details of your conversation informing the customer of the assessment outcome and the next steps with the claim.
- a. Standards for sketches

## **Residential building claims**

For residential building claims, your building or room sketch must include:

- the basic footprint of each damaged room;
- the relevant scale or dimension for each damaged room;
- the damage the customer has reported;
- the location and extent of damage in each room, e.g. the length of cracks, area of collapsed ceiling tiles;
- the location of relevant openings or penetrations, to help with orientation.

If the extent or location of the damage requires a footprint of the whole house, include the direction of north. For larger or more complex building types, e.g. multi-unit buildings, you may wish to request a copy of the building plans from the owner or body corporate to record this information more efficiently.







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Section 13 – Assessment documentation standards



#### Page 201 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### **Residential land claims**

For residential land claims, your sketch must include:

- the extent of the insured person's land;<sup>125</sup>
- the extent of the insured residential land. This includes:
  - insured land areas and land structures within the insured person's land (whether damaged or not), and;
  - insured land structures outside the insured person's land that are lost or damaged (if any);
- the type and extent of the land damage. This includes natural hazard damage (including imminent damage) to:
  - the insured land areas; and
  - any uninsured land areas and land structures within the insured person's land; and
  - any insured land structures within and outside the insured person's land.
- the location and scale of any residential buildings;
- the extent of the insured residential land in relation to any residential building (including insured land structures) that is lost or damaged, including any imminent damage.

Your sketch must be presented in a format that includes the following details. It must:

- be drawn to scale;
- identify the boundary of the insured person's land (including dimensions);
- indicate the dimensions of the house and any appurtenant structures;
- indicate (with the red dotted line) the insured land area within 8 metres of the house and any appurtenant structures;









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Section 13 – Assessment documentation standards

<sup>&</sup>lt;sup>125</sup> If it is not appropriate to identify and record damage to the entirety of the insured person's land (e.g. on a large lifestyle property or farm), you may identify a smaller area of land to limit your assessment of the land to. For more information, see the <u>NHC Claims Manual – Residential Land –</u> <u>NHI Act, Section 7.A.b.ii Assessing the type and extent of the natural hazard damage to the land area and land structures on the insured person's land.</u>

#### Page 202 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- identify the main access way (including its distance from the house);
- identify the areas of damaged land that are insured and not insured;
- include details of the location and type of the retaining walls;
- identify the street name; and
- show the direction of north.

For an example of a land sketch, see Appendix 4 Documentation examples Section e Land sketch in this Manual.

b. Standards for photographs and video

When you are taking photographs (and recording video, if applicable) of the customer's property, ensure the customer is aware of this and that you have their permission.

Avoid including people and any potentially sensitive items in your photographs (and any video), e.g.:

- washing on a clothesline;
- documents, books or magazines on shelves or tables;
- photographs or certificates on walls and shelves;
- any personal items in bedrooms or bathrooms;
- vehicle licence plates.

For video, also avoid including potentially sensitive audio, e.g. private conversations.

Generally, you should take a series of photographs (and videos, if applicable) progressing from general to specific, using three vantage points:

- long-range
- mid-range
- close-up.

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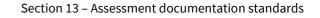
If there has been no damage or minor damage, you might take only a few mid-range and close-up photographs (and a short video, if applicable) of any areas of interest. For more severe damage, you should take a greater number of photographs (and amount of video) in a more structured manner.

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#### Page 203 of 427 | NHC Assessment Manual – NHI Act



- Long-range photographs of the insured property may be required, e.g. an aerial view of the entire property, the four compass point views of the insured residential building exterior, or a view of the entire length of the main access way showing any relevant residential buildings and/or land structures.
- Mid-range photographs may be required, e.g. a view of an exterior elevation to record the damage across the entire elevation, or a view of the length of a hallway showing the various entrances and exits.
- Close-up photographs will provide a view of the specific damage that you want to record and may include a measuring tool to illustrate the relative size of the damage. For example, the detail of a hairline crack in the exterior cladding (which is clear and shows the size) may be vital when determining whether it is natural hazard damage if challenged.

The interpretation of long-range, mid-range and close-up depends on the type and extent of damage, as well as the specifics of the property you are assessing.

## iv. Post-site visit documentation requirements

Upon receiving expert reports, check that:

- the legal description of the property is recorded;
- they comply with your instructions and meet the requirements for assessing and settling claims under the <u>NHI Act</u>;
- the appropriate sign-off is included;
- they have a draft watermark unless they are the final report;
- the report is either addressed to, or states it is for NHC, meaning it can be relied upon for settling NHCover claims;
- any limitations of the report have been clearly stated, e.g. restricted access;
- the facts and assumptions used as the basis for conclusions are clearly stated and reasoning is provided.





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Section 13 – Assessment documentation standards



Page 204 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Appendices

# Appendix 1. Building components and repair considerations

# a. Overview

The purpose of this appendix is to provide people assessing NHCover claims with a general understanding of common remediation strategies to natural hazard damage to residential buildings. The common remediation strategies described are intended to provide guidance only, and are not intended to be exhaustive. You may need to engage experts.<sup>5</sup>

The remediation strategies discussed in this section are substantive repairs, not urgent works.<sup>126</sup>

# b. Key considerations for remediation

Remediation strategies identified and costed for natural hazard damage to residential buildings fall into one of two categories. Building work that:

- does not require consent (exempt building work); or
- requires consent (restricted building work or work that is not restricted).

Any remediation strategy must:

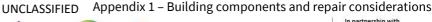
- meet the <u>NHI Act</u> requirements;<sup>132</sup>
- be lawful;<sup>127</sup>
- be fit for purpose;
- be practical and achievable;
- take into consideration any site, access, logistical and professional investigation issues relevant to the specific damage location and any relevant enabling works;
- consider any other properties<sup>136</sup> and how they may affect the remediation strategy for the property you are assessing;
- comply with the <u>HSWA</u> and regulations under that Act;<sup>128</sup>
- take into consideration the risk of contamination exposure, e.g. asbestos;
- consider any other relevant factors that you may identify;

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<sup>&</sup>lt;sup>126</sup> For details about urgent works, see the <u>Urgent Works Guide – NHI Act</u>.

<sup>&</sup>lt;sup>127</sup> See Section c Works that do not require consent (exempt building works) and Section d Works that require consent (restricted building work or work that is not restricted) in this Appendix.

<sup>&</sup>lt;sup>128</sup> See Section 1.h.v Health and safety.

Page 205 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



• meet our repair standards.<sup>129</sup>

# c. Works that do not require consent (exempt building works)

New Zealand legislation allows for exemptions to building consents in a variety of situations. The most applicable exemptions to natural hazard claims are summarised below.

<u>Section 41 of the Building Act 2004</u> exempts certain building work from the requirement to obtain a building consent. The most common exemptions are those outlined in sub clauses (b) and (c).

Section 41(1)(b) refers to any building work described in Schedule 1 that does not require a building consent. Among other things, this exemption allows building owners to maintain their buildings without obtaining a building consent by allowing a building product<sup>130</sup> or assembly associated with the building to be repaired, maintained or replaced, provided comparable materials are used and the replacement is in the same position. This is subject to meeting the requirements for exemption under <u>Schedule 1</u>, clause 1, subclause 3 of the Building Act 2004.

Section 41(1)(c)(i) relates to any building work where a building consent cannot practicably be obtained in advance because the work had to be carried out urgently to:

- save or protect life or health; or
- prevent serious damage to property.

However, <u>section 17 of the Building Act 2004</u> still requires building work to be carried out in accordance with the <u>building code</u> even if no building consent is required.

For further information, see the design consideration tables for each building element below.

# d. Works that require consent (restricted building work or work that is not restricted)

This section has been adapted from <u>Restricted Building Work (RBW)</u> which is licenced under <u>CC BY</u> by the Ministry of Business, Innovation and Employment.

Consent is required for all restricted building work, and for any work that is not restricted building work unless expressly exempted by section 41 of the Building Act 2004.

If you are unsure whether a consent is required or if the work is exempt from

<sup>&</sup>lt;sup>130</sup> The term 'building product' is defined in <u>section 9A of the Building Act 2004</u>.



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<sup>&</sup>lt;sup>129</sup> See Section 2.d.i.a What is the definition of 'replacement cost'?.

#### Page 206 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



consent, you should refer the matter to an appropriate expert or ask the relevant TA.

## i. Definition of restricted building work

Restricted building work is work that is critical to make a house or small-to-medium apartment building structurally sound and weathertight. You must use Licensed Building Practitioners (LBPs) to design and carry out or supervise this work. LBPs are registered and required to keep their skills and knowledge up to date. They are also licensed for the type of work they do. These licence classes include:

- design;
- carpentry;
- roofing;
- brick and block laying;
- external plastering;
- foundations.

Restricted building work is any work that:

- requires a building consent; and
- includes physical work that:
  - involves construction or alteration of the primary structure or external moisture management system of (and so affects the weathertightness of) a house or small-to-medium apartment building;
  - $\circ~$  is of a kind that is covered by one of the licence classes.
- includes design work, which is the preparation of any documentation which proposes to construct or alter:
  - the primary structure or external moisture management system attached to, or forming part of (and so affect the weathertightness of), a house or a small-to-medium apartment building; or
  - any fire-safety system attached to, or forming part of, a small-to-medium apartment building.

Work is not restricted building work if it:

- is not to a house or small-to-medium sized apartment building. For example, if it
  is work to mixed-use apartments (such as buildings containing shops);
  commercial buildings of any height; and large apartment buildings (exceeding 10
  m in height);
- does not require a building consent;
- does not affect or involve work to the primary structure of the building or its weathertightness;
- does not fit within one of the LBP licence classes.

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Page 207 of 427 | NHC Assessment Manual – NHI Act



# e. Examples of restricted building work

## i. Work to a dwelling's primary structure

Any work or design that alters the primary structure of a dwelling is restricted building work. This is work that contributes to the resistance of vertical and horizontal loads.

| Examples of primary structure building elements | Types of primary structure building elements   |
|---|--|
| Foundations and subfloor<br>framing             | Slab on grade, piles (including braces),<br>foundation walls, strips, rafts, pads, jack<br>studs, bearers, stringers |
| Floors  | Slabs, joists, trusses, composite flooring<br>systems  |
| Walls   | Studs, lintels, solid construction, piers  |
| Roof  | Rafters, purlins, trusses  |
| Columns and beams                               | Timber, steel, concrete, masonry   |
| Bracing   | Cross bracing, sheet bracing, shear walls,<br>diaphragms, portal frames  |

#### **Table 5: Primary structure building elements**

## ii. Work to a dwelling's weathertightness

Work or design intended to keep water out or help control moisture within the building fabric is restricted building work. It is also called work to 'external moisture management systems'.

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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Page 208 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Examples of external moisture management systems   | Areas where these may be found   |
|--|--|
| Damp-proofing  | <ul> <li>Floors in direct contact with ground moisture</li> <li>Subfloor or suspended floors and solid walls exposed to moisture in the air and including damp-proofing protection</li> </ul>  |
| Roof or wall cladding and roof or<br>wall cladding systems (attached<br>to the outside of framed or solid<br>walls or roofs) | <ul> <li>Building wrap</li> <li>Drained cavities</li> <li>Cladding</li> <li>Fixings</li> <li>Windows, doors and skylights</li> <li>Ventilators</li> <li>Openings and penetrations</li> <li>Flashings and seals</li> <li>Joints and junctions</li> <li>Surface treatments (e.g. waterproof coating)</li> <li>Waterproofing (waterproof coatings)</li> </ul> |
| Waterproofing  | <ul> <li>Waterproof coating to solid walls and<br/>roofs exposed to airborne moisture</li> <li>Waterproof membranes to deck or<br/>balcony areas</li> </ul>  |

#### Table 6: Areas where external moisture management systems may be found

In all instances, if the proposed work will affect any exterior element other than for minor aesthetic reasons, you should ask the relevant TA whether a consent is required.

## iii. Fire safety design

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This generally applies to apartment buildings and rest homes (which may include townhouses).

Design work on fire safety systems must be done or supervised by an LBP with the correct licence class. It ensures protections such as warning systems, escape routes and precautions against the spread of fire are included in the design.

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Page 209 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 7: Areas where fire safety systems might be found

| Examples of fire safety<br>systems               | Areas where these may be found  |
|--|---|
| Emergency warning system                         | Automatic or manual emergency warning systems   |
| Evacuation and fire service<br>operation systems | <ul> <li>Electromagnetic or automatic doors or<br/>windows</li> <li>Emergency lighting systems</li> <li>Fire service lift control</li> <li>Escape routes</li> <li>Final exits</li> <li>Signs</li> <li>Fire hose reels</li> <li>Fire separations</li> <li>Smoke separations</li> <li>Refuge areas</li> </ul>               |
| Suppression or control<br>systems                | <ul> <li>Automatic systems for fire suppression</li> <li>Mechanical or passive ventilation or air<br/>handling systems</li> <li>Pressurisation systems</li> <li>Smoke control systems</li> <li>Dampers</li> <li>Fire hose reels</li> <li>Building hydrant systems</li> <li>Fire separations, smoke separations</li> </ul> |
| Other parts of design                            | <ul> <li>Interface with systems</li> <li>Fire systems centre</li> <li>Emergency power supply</li> </ul>   |

#### f. **Foundations**

#### **Common foundation remediation considerations** i.

The foundation repair may not require a consent from the relevant TA and may be carried out as part of exempt works. If you are unsure whether a consent is required, you should ask the relevant TA.

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Page 210 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 8: Suitability of common foundation remediation strategies

| Examples of observed<br>damage   | Considerations   | Common<br>remediation<br>strategies  |
|--|--|--|
| Minor damage –<br>damage to decorative<br>coating, e.g. splatter<br>coat, paint or plaster   | Whether a specialist repairer is required  | Re-plaster<br>splatter coat,<br>re-paint   |
| Minor-to-moderate<br>damage – discernible<br>differential and<br>uniform settlement of<br>the dwelling and<br>noticeable floor slope<br>between any two<br>points                        | <ul> <li>Whether there is adequate subfloor access</li> <li>Whether it can be jacked and packed</li> <li>Whether ground conditions are suitable for the proposed remediation strategy</li> <li>Whether conventional crack repair methods, e.g. highor low-pressure injection, are appropriate</li> </ul>   | <ul> <li>Relevelling by<br/>ground<br/>injection</li> <li>Mechanical<br/>jacking of<br/>concrete<br/>perimeter<br/>foundation</li> <li>Jack and pack</li> <li>Epoxy injection</li> </ul>                                       |
| Minor damage –<br>minor lateral<br>extension or 'stretch'<br>of the floor and<br>foundations   | <ul> <li>Whether the foundation is repairable</li> <li>Whether the crack repair will restore foundation geometry</li> <li>Whether underfloor services will be disrupted</li> </ul>   | Localised<br>foundation<br>repair  |
| <ul> <li>Moderate damage –<br/>discernible:</li> <li>lateral extension or<br/>'stretch' of the floor<br/>and foundations; or</li> <li>differential and<br/>uniform settlement</li> </ul> | <ul> <li>Whether the underfloor<br/>services will be disrupted</li> <li>Whether there is adequate<br/>subfloor access</li> <li>Whether engineering or<br/>design input is required</li> <li>Whether ground conditions<br/>are suitable for the<br/>proposed remediation<br/>strategy</li> <li>Whether it can be jacked<br/>and packed</li> </ul> | <ul> <li>Localised<br/>replacement of<br/>any specified<br/>system<br/>(concrete<br/>perimeter<br/>foundation,<br/>timber pile)</li> <li>Relevelling by<br/>ground<br/>injection</li> <li>Mechanical<br/>jacking of</li> </ul> |

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Version as at **13/5/2025** 



| Examples of observed  | Considerations  | Common   |
|---|---|--|
| damage  |   | remediation<br>strategies  |
|   |   | concrete<br>perimeter<br>foundation<br>• Jack and pack<br>• Partial or full<br>foundation<br>rebuild |
| Moderate damage –<br>localised structural<br>damage to a<br>foundation element  | <ul> <li>Whether there is adequate subfloor access</li> <li>Whether ground conditions are suitable for the proposed remediation strategy</li> <li>Whether engineering or design input is required</li> <li>Whether underfloor services will be disrupted</li> <li>Whether floor coverings will be affected</li> </ul> | Partial<br>replacement of<br>a specified<br>element not<br>requiring<br>consent                      |
| Moderate damage –<br>localised pile tilting   | <ul> <li>Whether there is adequate subfloor access</li> <li>Whether ground conditions are suitable for the proposed remediation strategy</li> <li>Whether engineering or design input is required</li> <li>Whether underfloor services will be disrupted</li> <li>Whether floor coverings will be affected</li> </ul> | Replacement<br>of affected pile  |
| <ul> <li>Severe damage:</li> <li>extensive lateral<br/>extension or 'stretch'<br/>of the floor and<br/>foundations; or</li> </ul> | <ul> <li>Whether there is adequate<br/>subfloor access</li> <li>Whether ground conditions<br/>are suitable for the<br/>proposed remediation<br/>strategy</li> </ul>   | <ul><li>Full replacement<br/>of any specified<br/>system, e.g.:</li><li>Slab on grade</li></ul>      |

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Page 212 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Examples of observed<br>damage  | Considerations   | Common<br>remediation<br>strategies   |
|---|--|---|
| <ul> <li>significant<br/>differential and<br/>uniform settlement</li> </ul> | <ul> <li>Whether engineering and or<br/>design input is required</li> <li>Whether underfloor services<br/>will be disrupted</li> <li>Whether floor coverings will<br/>be affected</li> <li>Whether the repair is<br/>economically viable</li> <li>Whether the repair will<br/>restore superstructure<br/>geometry</li> </ul> | <ul> <li>Concrete<br/>perimeter<br/>foundation</li> <li>Piles or poles</li> </ul> |

# ii. Foundation design considerations

| Key foundation design considerations   | Comments   |
|--|--|
| Building Act 2004  | Consider required consents or exemptions.  |
| Building code  | Sections B1 Structure, B2 Durability, E1<br>Surface Water and E2 External Moisture   |
| Expert input   | Structural engineering and geotechnical engineering input will generally be required.  |
| Whether damage is aesthetic<br>or structural   | Structural damage will generally require<br>engineering input or consents. Aesthetic<br>damage may require remediation work to<br>undamaged areas to reinstate the amenity<br>value.   |
| Pre-existing conditions (see<br>Section 6 Pre-existing<br>conditions in this Manual) | In some cases, a performance-based lift may<br>be required. This is where a floor cannot be<br>reasonably restored to level without unduly<br>damaging the building. Performance-based<br>lifting is only appropriate where it will<br>sufficiently restore the functionality, |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations



Page 213 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# g. Roof

# i. Common roof remediation considerations

 Table 10: Suitability of common roof remediation strategies

| Examples of observed damage   | Considerations   | Common remediation<br>strategies  |
|---|--|---|
| Minor damage –<br>dislodged mortar<br>capping, dislodged<br>roofing tiles<br>(concrete, slate,<br>clay) | <ul> <li>Whether a specialist<br/>repairer is required</li> <li>Access requirements</li> </ul>   | <ul> <li>Localised repointing<br/>of ridge capping</li> <li>Localised reset of<br/>dislodged roofing tiles</li> </ul>   |
| Minor damage –<br>scratched paint on<br>rolled metal roofing<br>from impact,<br>popped fixings          | <ul> <li>Whether a specialist<br/>repairer is required</li> <li>Access requirements</li> </ul>   | <ul> <li>Painting roof to<br/>ensure colour match</li> <li>Re-fixing roof to<br/>purlins</li> </ul>   |
| Moderate damage –<br>broken ridge<br>capping, broken<br>roofing tiles<br>(concrete, slate,<br>clay)     | <ul> <li>Whether replacement<br/>tiles are available</li> <li>Whether trade<br/>knowledge is available<br/>to effect repairs</li> <li>Access requirements</li> </ul> | <ul> <li>Partial replacement of<br/>damaged roof area</li> <li>Total replacement of<br/>roof if materials are<br/>not available</li> </ul>                        |
| Moderate damage –<br>dented rolled metal<br>roofing from impact,<br>normally a chimney                  | <ul> <li>Whether the roofing<br/>material is still<br/>available</li> <li>Access requirements</li> </ul>   | <ul> <li>Replacement of<br/>damaged sheets or<br/>metal tiles</li> <li>Roof painting</li> </ul>   |
| Severe damage –<br>roof framing<br>members broken, no<br>structural support<br>for roofing materials    | Access requirements  | <ul> <li>Full rebuild of roof<br/>from stud top plate</li> <li>New trusses or rafters<br/>and purlins</li> <li>New roof to suit – may<br/>mean a heavy</li> </ul> |





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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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Page 214 of 427 | NHC Assessment Manual – NHI Act

#### Version as at **13/5/2025**



|  | concrete tile roof is |
|--|-----------------------|
|  | replaced with a       |
|  | lightweight rolled    |
|  | metal roof            |
|  |                       |

## ii. Roof design considerations

#### Table 11: Key roof design considerations

| Key roof design<br>considerations  | Comments   |
|--|--|
| Building Act 2004  | Consider required consents or exemptions.  |
| Building code  | Sections B1 Structure, B2 Durability, E1 Surface<br>Water and E2 External Moisture   |
| Whether damage is<br>aesthetic or structural   | Structural damage may require engineering<br>input or consents. Aesthetic damage may<br>require remediation work to undamaged areas<br>to reinstate the amenity value.   |
| Pre-existing conditions<br>(see Section 6 Pre-existing<br>conditions in this Manual) | The pre-event state of the roof in some cases will<br>mean that a repaint is not required, e.g. if the<br>owner had undertaken repairs to the roof<br>resulting in mismatched colours of roofing<br>material, there would be no requirement to<br>paint the roof if one or more sheets had to be<br>replaced after damage caused by a natural<br>hazard. |

# h. Chimneys

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## i. Common chimney remediation strategies

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Chimneys are either constructed externally to the superstructure of the dwelling or internally within the superstructure. In older residential buildings, they are commonly constructed in situ from either brick or masonry, which can be either reinforced with steel or unreinforced. Modern homes more commonly use steel flues. These can additionally have clad timber or steel-framed structures to form the look of a chimney.

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UNCLASSIFIED Appendix 1 - Building components and repair considerations

Page 215 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 12: Key considerations for common chimney types

| Chimney type                           | Key considerations  |
|--|---|
| Masonry and pre-cast concrete chimneys | <ul> <li>Extent or width of cracks</li> <li>Relevant TA requirements</li> <li>Structural integrity</li> <li>Aesthetics</li> </ul> |
| Steel flue chimneys                    | Serviceability  |

### Table 13: Suitability of common chimney remediation strategies

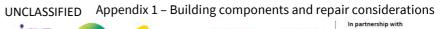
| Description of<br>observed<br>damage   | Considerations  | Common<br>remediation<br>strategies   |
|--|---|---|
| Minor cracking<br>of mortar or<br>masonry<br>element   | <ul> <li>Whether the cracking is<br/>aesthetic or structural</li> <li>Unreinforced masonry<br/>structures require careful<br/>development of an<br/>appropriate remediation<br/>strategy (structural<br/>engineering input required)</li> </ul> | <ul> <li>Repointing</li> <li>Re-plastering or repainting</li> <li>Epoxy injection</li> </ul>  |
| Minor damage –<br>loss of<br>secondary<br>component:<br>• Loss of<br>chimney pot<br>• Loss of<br>plaster cap | Whether suitable components<br>are available  | <ul> <li>Replacement of pot</li> <li>Replacement of plaster cap</li> <li>Alternative remediation strategy (if suitable components not available)</li> </ul> |
| Moderate-to-<br>severe damage:<br>• Partial<br>displacement<br>of brick                                      | <ul> <li>Whether the damaged chimney<br/>is affecting weathertightness</li> <li>Whether emergency works are<br/>required to waterproof</li> <li>Which TA requirements apply</li> </ul>  | Structural<br>engineering input is<br>required to<br>determine whether<br>partial or full   |

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Page 216 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Description of<br>observed<br>damage  | Considerations  | Common<br>remediation<br>strategies   |
|---|---|---|
| chimney<br>(above<br>roofline)<br>• Partial<br>displacement<br>of brick<br>chimney<br>(inside roof<br>cavity)   | <ul> <li>Whether there is damage to ceiling or roof linings</li> <li>Unreinforced masonry structures require careful development of an appropriate remediation strategy (structural engineering input required)</li> </ul>  | replacement is the<br>appropriate<br>remediation<br>strategy.   |
| <ul> <li>Severe damage:</li> <li>Displacement<br/>of external<br/>chimney from<br/>dwelling</li> <li>Displacement<br/>of internal<br/>chimney</li> <li>Crushing<br/>damage to<br/>steel flue</li> </ul> | <ul> <li>Which TA requirements apply</li> <li>What engineering and<br/>architectural input is required</li> <li>Whether external cladding is<br/>damaged</li> <li>Whether there is damage to<br/>internal linings or flooring</li> <li>Whether the original<br/>components are available</li> <li>Unreinforced masonry<br/>structures require careful<br/>development of an appropriate<br/>remediation strategy<br/>(structural engineering input<br/>required)</li> </ul> | <ul> <li>Replacement of<br/>chimney</li> <li>Replacement of<br/>foundation</li> <li>Repair of cladding</li> <li>Replacement of<br/>insulation</li> <li>Repair or<br/>replacement of<br/>roof linings<br/>including<br/>flashings</li> <li>Removal or repair<br/>of internal linings<br/>or floor linings</li> <li>Full replacement<br/>of damaged flue<br/>and flashings</li> </ul> |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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Page 217 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# ii. Chimney design considerations

### Table 14: Key chimney design considerations

| Key chimney design<br>considerations   | Comments   |
|--|--|
| Building Act 2004  | Consider required consents or exemptions.  |
| Building code  | E.g. Sections B1 Structure, B2 Durability, C2<br>Prevention of Fire Occurring, and E2 External<br>Moisture   |
| Whether the damage is aesthetic or structural  | <ul> <li>Aesthetic damage – may require<br/>remediation work to undamaged areas to<br/>reinstate the amenity value.</li> <li>Structural damage – may require<br/>engineering input or consents.</li> </ul> |
| Pre-existing conditions (see<br>Section 6 Pre-existing<br>conditions in this Manual) | <ul> <li>Non-compliant fires e.g. open fires</li> <li>Pre-existing cracks</li> </ul>   |
| Specialists  | Designer or engineer may be required   |
| Internal or external chimney   | Access limitations for internal chimneys   |
| Materials  | Availability   |
| Category 1 and 2 historic buildings  | Requirement to repair or replace in accordance<br>with the Heritage New Zealand Pouhere<br>Taonga Act 2014   |
| Consent conditions   | <ul> <li>Double-burning wood burners</li> <li>Local government clean air regulations</li> </ul>  |

# i. Superstructure (walls)

# i. Common superstructure remediation strategies

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The wall repair may not require a consent from the relevant TA and may be carried out as part of exempt works. If you are unsure whether a consent is required, you should ask the relevant TA.



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Page 218 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Table 15: Key considerations for common superstructure remediation strategies

| Superstructure type   | Key considerations  |
|---|---|
| <ul> <li>Timber framing</li> <li>Light gauge steel framing</li> <li>Structural insulated panels<br/>(SIPs)</li> </ul>   | <ul> <li>Whether intrusive investigation is<br/>required to view connections</li> <li>Whether geometry change has occurred</li> </ul>   |
| <ul> <li>Reinforced concrete</li> <li>Reinforced concrete masonry</li> <li>Precast tilt panel</li> <li>Unreinforced masonry, e.g.:</li> <li>Double or triple brick</li> <li>Unfilled concrete block</li> <li>Stone</li> </ul> | <ul> <li>Extent or width of cracks</li> <li>Aesthetics</li> <li>Waterproofing system integrity</li> <li>Whether a specialist repairer is required</li> <li>Pre-existing conditions, e.g. construction<br/>and design issues, corrosion</li> <li>Whether geometry change has occurred</li> <li>Relevant TA requirements</li> <li>Extent of repairs required to reinstate<br/>function and amenity value</li> <li>Pre-existing conditions, e.g. construction<br/>and design issues</li> <li>Adequacy and condition of lateral<br/>restraint at floor and roof levels</li> <li>Effectiveness of connection between<br/>masonry wall elements</li> <li>Adequacy and condition of the</li> </ul> |
| Structural steel  | foundations <ul> <li>Condition of the mortar</li> <li>Whether geometry change has occurred</li> <li>Whether intrusive investigation is</li> </ul>   |
|   | <ul> <li>required to view connections</li> <li>Pre-existing conditions, e.g. construction<br/>and design issues, corrosion</li> <li>Whether geometry change has occurred</li> </ul>   |

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Page 219 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 16: Suitability of superstructure remediation strategies

| Description of<br>observed<br>damage  | Considerations  | Common<br>remediation<br>strategies  |
|---|---|--|
| Framing – joints<br>between<br>members have<br>pulled apart                                   | Whether internal linings are<br>showing signs of severe<br>distress – this type of damage<br>is only expected if they are   | <ul> <li>Reinstate and refix<br/>members.</li> <li>Bent and buckled<br/>framing members<br/>must be replaced.</li> </ul>   |
| Framing –<br>bottom plate<br>fixing has lifted<br>or shifted from<br>its original<br>position | Whether thick floor coverings<br>could be disguising damage –<br>careful inspection is required if<br>linings show obvious signs of<br>distress   | <ul> <li>Remove linings and<br/>refix wall to floor<br/>connections</li> <li>Repair will vary<br/>depending on floor<br/>type (suspended<br/>timber or concrete<br/>slab)</li> </ul>   |
| Framing – wall<br>elements out of<br>plumb  | Whether the damage is structural or aesthetic   | If racked, remove<br>linings and realign<br>framing or replace as<br>required.   |
| Cracking or<br>displacement of<br>unreinforced<br>masonry walls                               | Unreinforced masonry<br>structures require careful<br>development of an appropriate<br>remediation strategy (structural<br>engineering input required)  | <ul> <li>Strengthen with<br/>surface-mounted<br/>reinforcement</li> <li>Full replacement</li> </ul>  |
| Cracking to<br>concrete<br>masonry  | <ul> <li>Whether grouting and<br/>reinforcement are present</li> <li>Width of cracking</li> <li>Effect of cracking on<br/>reinforcement durability</li> <li>Moisture ingress</li> <li>Whether access is an issue</li> </ul> | <ul> <li>Epoxy injection and repointing</li> <li>New grouting and reinforcement</li> <li>Partial or full replacement</li> <li>Repair or replacement of waterproofing system</li> </ul> |

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Council of New Zealand

Page 220 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Description of<br>observed<br>damage    | Considerations  | Common<br>remediation<br>strategies  |
|---|---|--|
| Cracks to<br>precast<br>concrete panels | <ul> <li>Whether reinforcement is hard<br/>drawn wire mesh</li> <li>Severity of cracking</li> <li>Condition of panel fixings</li> </ul> | <ul> <li>Repair – epoxy<br/>injection, plaster,<br/>paint</li> <li>Strengthening with<br/>additional structural<br/>elements or fibre-<br/>reinforced polymer<br/>(FRP)</li> </ul> |

# ii. Superstructure design considerations

## Table 17: Key superstructure design considerations

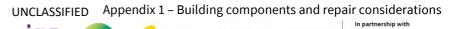
| Key superstructure design considerations   | Comments  |  |
|--|---|--|
| Building Act 2004  | Consider required consents or<br>exemptions. For example, building work<br>in connection with installing thermal<br>insulation in an existing building is<br>exempt from consent, except where it is<br>in an external wall of the building or an<br>internal wall of the building that is a fire<br>separation wall. |  |
| Building code  | Sections B1 Structure, B2 Durability, E1<br>Surface Water and E2 External Moisture  |  |
| Expert input   | Structural engineering input will generally be required   |  |
| Pre-existing conditions (see<br>Section 6 Pre-existing<br>conditions in this Manual) | <ul> <li>Construction and design issues e.g.:</li> <li>undersized wall members</li> <li>insufficient bracing capacity</li> <li>inadequate reinforcement</li> <li>Rotten framing</li> </ul>  |  |

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CONCENT Insurance Council of New Zealand

#### Page 221 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| • | Corrosion                             |
|---|---------------------------------------|
| • | Deterioration of waterproofing system |

# j. Exterior cladding

# i. Common exterior cladding remediation strategies

Table 18: Key considerations for common exterior cladding remediation strategies

| Cladding type   | Key considerations   |
|---|--|
| Lightweight cladding, e.g. timber, fibre-<br>cement, EIFS, PVC or vinyl, aluminium, metal   | Extent of repairs required to reinstate function and amenity value   |
| Medium and heavy weight cladding<br>(mass > 30 kg/m <sup>2</sup> of wall, brick, block, stucco,<br>fibre cement panel, autoclaved aerated<br>concrete (AAC)), brick slip on fibre cement<br>sheet, pre-assembled fibreglass | Extent of repairs required to<br>reinstate function and<br>amenity value   |
| Unreinforced masonry, e.g. double or triple<br>brick, unfilled concrete block, stone, schist)   | <ul> <li>Relevant TA<br/>requirements</li> <li>Extent of repairs<br/>required to reinstate<br/>function and amenity<br/>value</li> <li>Unreinforced masonry<br/>structures require<br/>careful development of<br/>an appropriate<br/>remediation strategy<br/>(structural engineering<br/>input required)</li> </ul> |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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CONT ICNZ Insurance Council of New Zealance

Page 222 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Table 19: Suitability of common exterior cladding remediation strategies

| Description of observed<br>damage   | Considerations  | Common<br>remediation<br>strategies   |
|---|---|---|
| Minor-to-moderate cracking to paintwork   | <ul> <li>Whether the paint can be colour matched</li> <li>How much of the area needs to be repainted for amenity value</li> </ul> | Gap-fill, sand and painting   |
| Minor-to-moderate cracking to<br>EIFS   | Whether the<br>system is direct<br>fixed or cavity<br>batten  | Localised re-meshing<br>and plastering and<br>painting  |
| Minor-to-moderate cracking to mortar joints                                     | <ul> <li>Width of<br/>cracking</li> <li>Whether<br/>coloured mortar<br/>can be matched</li> </ul>                                 | <ul> <li>Grinding out and<br/>repointing</li> <li>Removal, cleaning,<br/>and reinstatement<br/>of bricks</li> </ul>             |
| Moderate damage –<br>dislodgement of mechanical<br>fixings                      | Whether existing<br>bricks can be<br>reused   | Removal, cleaning,<br>and reinstatement of<br>bricks  |
| Minor-to-moderate cracking to<br>aerated or precast concrete<br>cladding panels | Width of cracking   | <ul> <li>Epoxy injection,<br/>plastering and<br/>painting</li> <li>Localised<br/>replacement of<br/>damaged cladding</li> </ul> |
| Minor-to-moderate cracking to fibre cement                                      | Whether the<br>system is direct<br>fixed or cavity<br>batten  | Localised<br>replacement of<br>damaged cladding   |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations In partnership with iag

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Page 223 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Description of observed<br>damage      | Considerations  | Common<br>remediation<br>strategies  |
|--|---|--|
| Severe damage to any specific cladding | <ul> <li>Consent –<br/>substantial<br/>replacement of<br/>any specified<br/>system will<br/>trigger a<br/>consent</li> <li>Whether the<br/>system is direct<br/>fixed or cavity<br/>batten</li> </ul> | <ul> <li>Full replacement<br/>of specified system</li> <li>Replacement of<br/>joinery</li> </ul> |

# ii. Exterior cladding design considerations

| Key exterior cladding design considerations                                  | Comments  |
|--|---|
| Building Act 2004  | Consider required consents or exemptions. For<br>example, building work in connection with<br>installing thermal insulation in an existing<br>building is exempt from consent, except where it<br>is in an external wall of the building or an internal<br>wall of the building that is a fire separation wall. |
| Building code  | <ul> <li>E.g. Sections B1 Structure, B2 Durability, C2<br/>Prevention of Fire Occurring, and E2 External<br/>Moisture</li> <li>Exemptions</li> </ul>  |
| Expert input   | For partial or full replacement, architectural design input may be required.  |
| Pre-existing conditions<br>(see 6 Pre-existing<br>conditions in this Manual) | <ul><li>Construction and design issues e.g.:</li><li>leaky building syndrome</li><li>rotten framing</li></ul>   |
| Materials  | Availability  |

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Table 20: Key exterior cladding design considerations



UNCLASSIFIED Appendix 1 – Building components and repair considerations

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#### Page 224 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key exterior cladding design considerations | Comments   |
|---|--|
| Category 1 and 2 historic buildings         | Requirement to repair or replace in accordance<br>with the Heritage New Zealand Pouhere Taonga Act<br>2014 |

# k. Interior linings

# i. Common interior lining remediation strategies

Table 21: Key considerations for common interior lining remediation strategies

| Lining types                | Key considerations   |
|-----------------------------|--|
| Plasterboard                | Whether damage is aesthetic or structural  |
|                             | Bracing  |
| Lath and plaster            | <ul> <li>Delamination of plaster from laths</li> <li>Supporting bracing</li> </ul> |
| Hardboard                   | Supporting bracing   |
| Softboard                   | Supporting bracing   |
| Tongue and groove (T and G) | <ul><li> Availability</li><li> Supporting bracing</li></ul>                        |
| Fibre cement board          | Supporting bracing   |

## Table 22: Suitability of common interior lining remediation strategies

| Description of<br>observed damage   | Considerations  | Common remediation<br>strategies   |
|---|---|--|
| Minor cracking to<br>plasterboard,<br>hardboard,<br>softboard, T and G,<br>fibre cement | Whether there are<br>additional cosmetic<br>linings to consider,<br>e.g. wallpaper,<br>lining paper | <ul> <li>Rake, re-stop, plaster<br/>and redecorate</li> <li>Re-screw sheets around<br/>perimeter</li> <li>Reinforcing tape, e.g.<br/>FibaFuse</li> </ul> |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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CONT ICNZ Insurance Council of New Zealance Page 225 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Description of<br>observed damage  | Considerations  | Common remediation<br>strategies  |
|--|---|---|
| Severe damage to<br>plasterboard,<br>hardboard,<br>softboard, T and G,<br>fibre cement | <ul> <li>Bracing</li> <li>Wall coverings</li> <li>Whether services<br/>will be affected</li> </ul>  | <ul> <li>Removal and disposal of<br/>damaged lining material</li> <li>Realigning or packing<br/>wall framing</li> <li>Replacement with a<br/>modern equivalent (if<br/>original not available)</li> </ul> |
| Minor cracking to lath<br>and plaster  | <ul> <li>Whether plaster is<br/>still fixed to laths<br/>(drumminess)</li> <li>Whether there are<br/>additional cosmetic<br/>linings to consider,<br/>e.g. wallpaper,<br/>lining paper</li> </ul> | Rake, re-stop, plaster and<br>redecorate, with the<br>inclusion of reinforcing<br>tape, e.g. FibaFuse   |
| Moderate-to-severe<br>damage to lath and<br>plaster                                    | <ul> <li>Bracing</li> <li>Wall coverings</li> <li>Replacement with suitable alternative</li> <li>Whether services will be affected</li> </ul>   | <ul> <li>Removal and disposal of<br/>damaged lining material</li> <li>Realigning or packing<br/>wall framing</li> <li>Replacement with a<br/>modern equivalent (if<br/>original not available)</li> </ul> |

# ii. Interior lining design considerations

### Table 23: Key interior lining design considerations

| Key interior lining design considerations | Comments   |
|---|--|
| Building Act 2004                         | Consider required consents or exemptions. For<br>example, building work in connection with<br>installing thermal insulation in an existing<br>building is exempt from consent, except where it<br>is in an external wall of the building or an<br>internal wall of the building that is a fire<br>separation wall. |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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Page 226 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key interior lining design considerations  | Comments  |
|--|---|
| Building code  | E.g. Sections B1 Structure, B2 Durability, C2<br>Prevention of Fire Occurring, E2 External<br>Moisture and E3 Internal Moisture |
| Pre-existing conditions<br>(see Section 6 Pre-existing<br>conditions in this Manual) | Construction and design issues, e.g.:<br>• leaky building syndrome<br>• rotten framing  |
| Materials  | Matching  |
| Category 1 and 2 historic buildings  | Requirement to repair or replace in accordance<br>with the Heritage New Zealand Pouhere Taonga<br>Act 2014                      |

# l. Joinery

# i. Common joinery remediation strategies

For any joinery type, the key things you must consider are:

- Weathertightness
- Glazing
- Access
- Availability
- Condition

## Table 24: Suitability of common joinery remediation strategies

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| Description of observed damage   | Considerations   | Common<br>remediation<br>strategies   |
|--|--|---|
| Minor damage to<br>panels, glass<br>cupboard door,<br>hardware and<br>benchtop | Whether off-site action is required to reinstate joinery | <ul> <li>Replacement of glazing unit</li> <li>Adjustment or reset of unit</li> <li>Replacement of components (to</li> </ul> |



UNCLASSIFIED Appendix 1 – Building components and repair considerations

vero

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In partnership with

Page 227 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Description of observed damage                     | Considerations   | Common<br>remediation<br>strategies         |
|--|--|---|
|  |  | the extent<br>necessary)<br>• Repainting    |
| Moderate damage<br>to a joinery<br>component       | <ul> <li>Whether similar products are available</li> <li>Whether plumbing, drainage and/or electrical work are required</li> </ul> | Isolated<br>replacement of<br>joinery units |
| Severe damage to<br>multiple joinery<br>components | <ul> <li>Whether similar products are available</li> <li>Whether plumbing, drainage and/or electrical work are required</li> </ul> | Full replacement of joinery units           |







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UNCLASSIFIED Appendix 1 – Building components and repair considerations





Page 228 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# ii. Joinery design considerations

## Table 25: Key joinery design considerations

| Key joinery design<br>considerations   | Comments   |
|--|--|
| Building Act 2004  | Consider required consents or exemptions.  |
| Building code  | E.g. Sections B1 Structure, B2 Durability, C2<br>Prevention of Fire Occurring, and E2 External<br>Moisture |
| Pre-existing conditions<br>(see 6 Pre-existing<br>conditions in this Manual) | Construction and design issues, e.g.:<br>• leaky building syndrome<br>• rotten framing                     |
| Materials  | <ul><li>Availability</li><li>Matching</li></ul>  |
| Category 1 and 2 historic buildings  | Requirement to repair or replace in accordance<br>with the Heritage New Zealand Pouhere Taonga<br>Act 2014 |

# m. Floors

# i. Common floor remediation strategies

## Table 26: Key considerations for common floor types

| Floor type                    | Key considerations  |
|-------------------------------|---|
| Timber                        | <ul><li>Subfloor insulation</li><li>Floor coverings</li><li>Aesthetics</li></ul>                                    |
| Concrete (including polished) | <ul> <li>Width of crack</li> <li>Reinforced or unreinforced</li> <li>Floor coverings</li> <li>Aesthetics</li> </ul> |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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CONCENT Insurance Council of New Zealand

Page 229 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 27: Suitability of common floor remediation strategies

| Description of<br>observed<br>damage                             | Considerations  | Common<br>remediation<br>strategies   |
|--|---|---|
| Minor<br>cosmetic<br>damage to<br>timber floor<br>component      | <ul> <li>Whether there is adequate subfloor access</li> <li>Whether floor coverings will be affected</li> <li>Whether the damaged component can be replaced with a suitable alternative</li> <li>Whether joinery needs to be moved</li> </ul>   | <ul> <li>Filling, sanding<br/>and polyurethane<br/>application</li> <li>Replacement of<br/>floor coverings</li> <li>Replacement with<br/>a modern<br/>equivalent (if<br/>original not<br/>available)</li> </ul> |
| Minor<br>cosmetic<br>damage to<br>concrete<br>floor<br>component | <ul> <li>Whether floor coverings will be affected</li> <li>Whether an aesthetic repair can be achieved</li> <li>Whether joinery needs to be moved</li> </ul>  | <ul> <li>Grinding out epoxy<br/>fill</li> <li>Replacement of<br/>floor coverings</li> <li>Polishing and<br/>sealing</li> </ul>  |
| Moderate<br>damage to<br>timber floor                            | <ul> <li>Whether there is adequate<br/>subfloor access</li> <li>Whether floor coverings will be<br/>affected</li> <li>Whether the damaged<br/>component can be replaced<br/>with a suitable alternative</li> <li>Whether joinery needs to be<br/>moved</li> <li>Whether services will be<br/>affected</li> <li>Whether insulation will need to<br/>be replaced</li> </ul> | Removal, disposal<br>and replacement of<br>timber flooring  |
| Moderate<br>damage to<br>concrete<br>floor                       | <ul> <li>Whether floor coverings will be affected</li> <li>Whether an aesthetic repair can be achieved</li> </ul>   | Removal, disposal<br>and replacement of<br>section of concrete<br>slab  |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

TOWER



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#### Page 230 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



|  | <ul> <li>Whether joinery needs to be moved</li> <li>Whether services will be affected</li> <li>Whether insulation will need to be replaced</li> </ul>  |                           |
|--|--|---------------------------|
| Severe<br>damage to<br>timber floor      | <ul> <li>Whether floor coverings will be affected</li> <li>Whether joinery needs to be moved, including trims and architraves</li> <li>Whether services will be affected</li> <li>Whether insulation will need to be replaced</li> </ul> | Full replacement of floor |
| Severe<br>damage to<br>concrete<br>floor | <ul> <li>Whether floor coverings will be affected</li> <li>Whether joinery needs to be moved, including trims and architraves</li> <li>Whether services will be affected</li> <li>Whether insulation will need to be replaced</li> </ul> | Full replacement of floor |

# ii. Floor design considerations

### Table 28: Key floor design considerations

| Key floor design<br>considerations | Comments   |
|------------------------------------|--|
| Building Act 2004                  | Consider required consents or exemptions.  |
| Building code                      | E.g. Sections B1 Structure, B2 Durability, C2<br>Prevention of Fire Occurring, and E2 External<br>Moisture |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations

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A QBE

CONTRACTOR

Page 231 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key floor design<br>considerations   | Comments  |
|--|---|
| Pre-existing conditions (see<br>Section 6 Pre-existing<br>conditions in this Manual) | Construction and design issues, e.g.: <ul> <li>leaky building syndrome</li> <li>rotten framing</li> </ul> |
| Materials  | <ul><li>Availability</li><li>Matching</li></ul>   |
| Category 1 and 2 historic buildings  | Requirement to replace in accordance with<br>the Heritage New Zealand Pouhere Taonga<br>Act 2014          |

# n. Services

# i. Common remediation strategies to services

You must determine a remediation strategy based on the natural hazard damage you have observed visually. In some cases, when carrying out the repair to the damaged service, the customer's contractor or other expert may identify that a more substantial repair is necessary. In these cases, the customer will need to provide you with supporting information to consider whether the additional repair is necessary to remediate the natural hazard damage.

# ii. Design considerations for services

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### Table 29: Key design considerations for services

| Key design<br>considerations for<br>services   | Comments  |
|--|---|
| Building Act 2004  | Consider required consents or exemptions.   |
| Building code  | E.g. Sections B1 Structure, B2 Durability, C2<br>Prevention of Fire Occurring, E2 External Moisture,<br>G Services and Facilities |
| Pre-existing conditions<br>(see Section 6 Pre-<br>existing conditions in<br>this Manual) | Construction and design issues e.g. access or availability  |

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UNCLASSIFIED Appendix 1 – Building components and repair considerations





Page 232 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design<br>considerations for<br>services | Comments  |
|--|---|
| Materials                                    | Availability, matching  |
| Category 1 and 2 historic buildings          | Requirement to replace in accordance with the<br>Heritage New Zealand Pouhere Taonga Act 2014 |







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UNCLASSIFIED Appendix 1 – Building components and repair considerations





Page 233 of 427 | NHC Assessment Manual – NHI Act



# Appendix 2. Land components and repair considerations

# a. Overview

The purpose of this appendix is to provide you with a general understanding of the common types of conceptual remediation strategy recommended by geotechnical engineers to remediate natural hazard damage to residential land.

The remediation strategies discussed in this section are substantive repairs, not urgent works.<sup>131</sup> The photographs provided in this section are intended only as examples of each of the most common types of remediation strategy.

This section discusses repair considerations for visible land damage only. If the claim you are dealing with has non-visible land damage, i.e. ILV or IFV, you must escalate this to the appropriate NHC representative.

# b. Key considerations for remediation

Some types of land damage do not require an engineered conceptual remediation strategy (e.g. undulation, scour or inundation), but when this is required, you should engage the appropriate expert to determine or design these types of remediation strategies. You should have a good knowledge of the common remediation strategies that an engineer will recommend and their typical design features. This will help you to ensure that the engineer has provided a comprehensive conceptual remediation strategy that is suitable for the purposes of settling an NHCover claim.

When you have engaged a geotechnical engineer to carry out a site assessment, their report will provide:

- their findings in relation to the natural hazard damage that has occurred (if any)
- a conceptual remediation strategy that will reinstate the damaged residential land and remove any risk of imminent damage,<sup>6</sup> including the relevant design considerations.

When recommending a remediation strategy,<sup>132</sup> the geotechnical engineer will consider:

• the property insured under the NHI Act;

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<sup>&</sup>lt;sup>131</sup> For details on urgent works, see the <u>Urgent Works Guide – NHI Act</u>.

<sup>&</sup>lt;sup>132</sup> See Appendix 3 Remediation strategy, standards and costing.

#### Page 234 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- the type and extent of natural hazard damage;
- reinstatement standards under the NHI Act and other applicable legislation, regulations and compliance;
- site access;
- ground conditions;
- design fees, consenting, surveying and compliance fees.

All land structures must be constructed in accordance with the <u>building code</u>, regardless of whether they require resource or building consents. All earthworks must be undertaken in accordance with the <u>Resource Management Act 1991 (RMA)</u>, regardless of whether a resource consent is required.

# c. Retaining walls

# i. Definition of 'face area'

In relation to land structures, the term 'face area' can be used to quantify the natural hazard damage that has occurred (including risk of imminent damage) and to determine the required repair of that damage. The measurement is carried out from an elevation view (horizontal). The face area requiring repair can be larger than the area of natural hazard damage, because retaining walls are constructed as a system that relies on the sum of its parts to function properly.















Page 235 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# ii. Common retaining wall remediation strategies

#### a. Timber pole retaining wall

A timber pole retaining wall is a common strategy to remediate land damage in soils or replace a damaged retaining wall. The timber poles are embedded down into stable material below the failure surface to support the unstable material above. Unlike palisade walls, timber pole retaining walls also extend above the ground surface, so they are suitable to re-establish the existing ground profile where significant displacement of evacuated land has occurred.

Timber poles may be driven into the ground or cemented in bored holes. Bored holes are generally preferred in urban environments because driving timber poles generates significant noise and vibration. Driven poles are generally only preferred on sites with very soft soils where bored holes are prone to collapsing, or in environmentally sensitive areas where concrete should be avoided. It is a common strategy to predrill holes for driven piles to facilitate driving poles into the ground and to reduce driving vibrations. If this is undertaken the pre-drilled diameter should be no larger than the pole diameter.

A hand-operated post hole borer may be used to bore holes for retaining walls with small retained heights (generally no greater than 1 m). However, for most walls an excavator or drill rig is required, so consider accessibility constraints and any overhead obstructions.

Timber pole walls are typically suitable for retained heights of up to 3 m. For greater retained heights, timber poles often do not provide sufficient strength capacity or

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Figure 47 Timber pole retaining wall

### Page 236 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025

Natural Hazards Commission Toka Tū Ake

length. In this case, adding ground anchors may be suitable to increase capacity and reduce embedment. If ground anchors are not suitable, alternative pile materials such as steel or reinforced concrete may be used. Alternative pile materials cost more than timber poles so are generally only used when their available strength or length is required.

Steel piles are generally I-beam or hollow circular sections that are driven into the ground or cemented in bored holes. Sections may be welded together onsite to form longer piles. Reinforced concrete piles are usually cast in situ in bored holes.

| Cases where timber pole retaining walls are suitable  | Cases where timber pole retaining walls are not suitable   |
|---|--|
| <ul> <li>Where there has been significant<br/>lateral and vertical land<br/>displacement and an above-ground<br/>wall is required to reinstate the<br/>ground profile</li> <li>Where near-surface soils are weak,<br/>but they are underlain with more<br/>competent soil or rock at relatively<br/>shallow depths</li> <li>For sites where there is steep sloping<br/>ground in front of the proposed<br/>retaining wall location</li> </ul> | <ul> <li>Where existing underground<br/>obstructions exist e.g. buried<br/>services, underground structures<br/>or shallow hard rock, which could<br/>make drilling difficult</li> <li>Sites where there is limited access<br/>for machinery, e.g. stairs or<br/>narrow pathways</li> <li>Sites where it may be difficult to<br/>transport long timber poles, e.g.<br/>driveways with tight corners</li> <li>Sites with overhead obstructions,<br/>e.g. crawl spaces or below decks</li> <li>Walls with large retained heights<br/>(generally greater than 3 m)</li> </ul> |

### Table 30: Suitability of timber pole retaining walls



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#### Page 237 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### b. Crib retaining wall



Figure 48 Concrete crib retaining wall



Figure 49 Timber crib retaining wall

Crib retaining walls are modular retaining walls which comprise interlocking timber elements assembled to create box-like structures. These are then filled with granular

UNCLASSIFIED Appendix 2 - Land components and repair considerations

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### Page 238 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



fill (gravel). Crib retaining walls are gravity walls which utilise the self-weight of the infilled box structures to support the unstable ground behind. They are founded on shallow foundations which typically only require minimal embedment (less than 0.5 m). They require a flat and component-founding platform which is typically constructed of compacted hardfill or concrete.

Crib retaining walls are generally suitable for retained heights of 1 to 5 m. For retained heights less than 1 m, alternatives such as keystone block walls may be more economical and compact.

Crib retaining walls can be constructed using concrete elements rather than timber. In most circumstances, however, timber is the preferred material as it is more economical and easier to construct because the lightweight elements can easily be placed by hand. Concrete elements are generally only selected when a section of an existing concrete crib retaining wall has been damaged by a natural hazard.









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#### Page 239 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



### Table 31: Suitability of crib retaining walls

| Cases where crib retaining walls are suitable   | Cases where crib retaining walls are not suitable   |
|---|---|
| <ul> <li>Where land needs to be built up and there is a stable base</li> <li>Where existing underground obstructions exist, e.g. buried services, underground structures or shallow hard rock, which could make installation of pole retaining walls difficult</li> <li>Where site access for machinery is limited, as materials may be transported and placed by hand</li> <li>Where large retained heights are</li> </ul> | <ul> <li>Where near surface soils are very weak, because it may be difficult to form a stable founding platform</li> <li>Deep-seated landslides where slip surfaces may extend below the base of the retaining wall;</li> <li>Where steep sloping ground is present in front of the proposed wall – it may be difficult to cut a level founding platform which remains stable under the weight of the wall</li> <li>Where the wall foundation is under</li> </ul> |
| <ul> <li>• Where targe retained heights are required</li> <li>• Outside of urban areas because specialist contractors are not required</li> <li>• In environmentally sensitive areas where concrete should be avoided</li> </ul>  | <ul> <li>where the wat roundation is under<br/>water, e.g. stabilising stream banks, as<br/>dewatering or stream diversion would<br/>be required</li> <li>In tight areas where retaining wall<br/>width must be minimised, e.g.<br/>stabilising a slip along a property<br/>boundary where a narrow access path<br/>runs between the boundary and<br/>dwelling</li> <li>Where it is difficult to get large<br/>volumes of hardfill to site</li> </ul>             |















#### Page 240 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



c. Gabion basket retaining wall



Figure 50 Gabion basket scour protection



Figure 51 Gabion basket retaining wall

Gabion basket retaining walls comprise modular steel wire baskets which are filled with rock and stacked to form a wall arrangement. Like crib retaining walls, gabion retaining walls utilise the self-weight of the infilled baskets to support unstable ground behind.

Gabion basket walls are founded on shallow foundations and can be placed directly on the natural ground surface as long as there is a level platform. This makes gabion walls suitable for stream or coastal environments as the wall may be able to be constructed without dewatering or stream diversion. They can be used together with

UNCLASSIFIED Appendix 2 - Land components and repair considerations







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#### Page 241 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



rock mattresses, which provide erosion and scour control to waterways.

Gabion basket walls are typically suitable for retained heights of 0.5 to 3 m. Retained heights greater than 3 m are possible, but they usually require multiple rows of gabion baskets on the first layer. This results in a wide retaining wall footprint and a large quantity of rock being required.

## Table 32: Suitability of gabion basket retaining walls

| Cases where gabion basket retaining walls are suitable  | Cases where gabion basket retaining walls are not suitable   |
|---|--|
| <ul> <li>In environments where the retaining wall may be submerged in water – this is because the wall may be able to be constructed without dewatering and the gabion baskets can provide energy dissipation and scour protection</li> <li>For slopes with high groundwater levels and/or seepage, because the gabion baskets can be freedraining</li> <li>Where existing underground obstructions exist, e.g. buried services, underground structures or shallow hard rock, which could make installation of pole retaining walls difficult</li> <li>Where site access for machinery is limited, because materials may be transported and placed by hand</li> </ul> | <ul> <li>Where near surface soils are very weak, because it may be difficult to form a stable founding platform</li> <li>Deep-seated landslides where slip surfaces may extend below the base of the retaining wall</li> <li>Where steep sloping ground is present in front of the proposed wall – it may be difficult to cut a level founding platform which remains stable under the weight of the wall</li> <li>In tight areas where retaining wall width must be minimised, particularly for large retained heights</li> <li>In areas where rock is not readily available</li> </ul> |

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#### Page 242 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



d. Concrete block retaining wall



Figure 52 Concrete block retaining wall

Concrete block retaining walls are modular walls which can be constructed without large machinery. They consist of hollow precast concrete blocks which are generally stacked over vertical and horizontal steel reinforcing bars. The hollow cavities are then filled with concrete onsite. The blocks are founded on a shallow foundation usually with minimal embedment (less than 0.5 m). The foundation generally involves a layer of compacted hardfill and includes a concrete footing.

The concrete footing may extend in front of or behind the wall, beneath the backfill. When the concrete footing extends behind the wall, it provides more resistance against toppling over but requires more earthworks to backfill above the concrete pad.

Since the concrete footings are buried, the final exposed concrete block wall is narrow. This is a key advantage of concrete block walls over gabion and crib wall alternatives.

Concrete block retaining walls are generally more efficient for smaller retained heights up to 2 m. For larger retained heights, significant steel reinforcement and wide concrete footings are required. This can require a large amount of earthworks and space to construct the wall.















#### Page 243 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



#### Table 33: Suitability of concrete block retaining walls

| Cases where concrete block retaining walls are suitable   | Cases where concrete block retaining walls are not suitable  |
|---|--|
| <ul> <li>For sites that require a thin low-profile finished wall, e.g. where a narrow pathway must be maintained between a retaining wall and dwelling</li> <li>Where existing underground obstructions exist, e.g. buried services, underground structures or shallow hard rock, which prevent the construction of a pole retaining wall</li> <li>Where site access for machinery is limited, because materials may be transported and placed by hand</li> <li>Where there are overhead obstructions, e.g. within basements or crawl spaces</li> <li>Where the retaining wall needs to be integrated with another structure, e.g. to merge with the structural wall of a dwelling</li> </ul> | <ul> <li>Where near-surface soils are very weak, because it may be difficult to form a stable founding platform</li> <li>Deep seated landslides where slip surfaces may extend below the base of the retaining wall</li> <li>Where steep sloping ground is present in front of the proposed wall – it may be difficult to cut a stable level platform</li> <li>For large retained heights greater than 2 m where crib or gabion walls may prove more efficient</li> <li>Where the wall foundation is under water, e.g. stabilising stream banks, as dewatering and/or stream diversion would be required – strict environmental controls would also need to be in place when pouring concrete</li> <li>For sites with high groundwater levels – concrete block walls may require waterproofing with an impermeable membrane, and require comprehensive and durable drainage behind the wall</li> </ul> |



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#### Page 244 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



e. Palisade wall



Figure 53 Reinforced concrete palisade wall holes



Figure 54 Reinforced concrete palisade wall – complete

UNCLASSIFIED Appendix 2 - Land components and repair considerations

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### Page 245 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



Palisade walls are in-ground retaining walls which consist of a line of closely spaced buried piles. These walls are suitable for stabilising landslides that have deep failure surfaces. Piles are embedded down into stable material below the failure surface and provide an underground wall to retain the unstable material above. Palisade walls are commonly used to protect a dwelling or appurtenant structure against a deepseated retrogressive landslide that poses a risk of imminent damage by evacuation.

Palisade walls also have a common application in NHCover claims of stabilising land behind an existing damaged retaining wall where the retaining wall itself cannot be remediated. A common example of this is where a retaining wall outside a customer's property boundary has failed and has caused evacuation of insured land within the customer's property. A palisade wall may be constructed within the boundary of the customer's property to protect their land against the risk of imminent land evacuation damage.

Palisade walls are generally constructed of either reinforced concrete piles or timber poles. Reinforced concrete piles may be required for larger deeper slips, while timber poles are generally sufficient and more economical for smaller scale landslides, generally with slip surfaces of 3 m or less in depth. Palisade walls may also include a capping beam that ties together the piles at surface level. Capping beams may be required to increase wall capacity or facilitate ground anchors. For details on applying anchors, see Appendix 2, section iii Retaining wall design considerations in this Manual.

| Cases where palisade retaining walls are suitable   | Cases where palisade retaining walls are not suitable  |
|---|--|
| <ul> <li>Landslides with deep failure<br/>surfaces, which may undermine<br/>other retaining wall types</li> <li>Landslides with small<br/>displacements – these may be<br/>identified as slips that show<br/>tension cracking but do not have<br/>large amounts of inundation or<br/>changes to the ground profile. A<br/>palisade wall may stabilise the<br/>slip and reinstate the land<br/>without the need for significant<br/>earthworks.</li> </ul> | <ul> <li>For shallow landslides, surficial rockfall or scour</li> <li>For landslides where an above-ground remediation strategy is required to reinstate evacuated land – generally, this occurs when the evacuated soil mass has had significant displacement and earthworks are required to reinstate the existing ground profile</li> <li>Where there are existing underground obstructions, e.g. buried services,</li> </ul> |

## Table 34: Suitability of palisade retaining walls

UNCLASSIFIED Appendix 2 - Land components and repair considerations

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#### Page 246 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| • Where an existing retaining wall<br>has been damaged, but the wall<br>itself is unable to be remediated,<br>e.g. a damaged wall outside the | <ul> <li>underground structures, or shallow hard rock</li> <li>Where site access for a piling rig is limited, e.g. behind a dwelling where the only</li> </ul> |
|---|--|
| customer's property boundary.   | <ul> <li>access is across stairs or a narrow path</li> <li>Where there are overhead services or obstructions</li> </ul>  |

f. Soil nail, rock bolt and rock anchor retaining walls



Figure 55 Soil nail retaining wall

Soil nails, rock bolts and rock anchors are all slope remediation strategies that involve steel rods or strands cemented into angled drilled holes in a steep slope face. These solutions drill though potentially unstable exterior material and anchor to stable interior soil or rock behind. They require directional drilling machinery and local specialist contractors. They may not be suitable if there are obstructions in the ground, e.g. piled building foundations, a building basement or infrastructure upslope of the slip.

Rock bolts are short steel bars that may be utilised to stabilise localised areas on fractured rock slopes. They are used in mesh walls and often used in conjunction













### Page 247 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



with sprayed concrete walls in areas where sprayed concrete alone does not provide sufficient forces to support larger unstable rocks. Rock bolts are only suitable in hard rock slopes and are not suitable for soil slopes, large scale failure mechanisms or deep failure mechanisms.

Soil nails are used for soil or soft weathered rock slopes. They involve cemented steel bars that are installed into the slope face in a grid pattern. They are suitable for remediating steep slopes that have undergone shallow slumping failures. Generally, soil nails are paired with a surface mesh.

Rock anchors are long, high-capacity steel elements (reinforcement bars or strands). They may be installed in a grid pattern on rock slopes and used to stabilise larger scale failures. Rock anchors are also commonly used in conjunction with piled retaining walls. They are suitable where there is shallow rock on a site to embed the anchors into and can be effective in increasing the wall capacity and reducing wall deflections.

g. Pinned mesh retaining wall



Figure 56 Pinned mesh retaining wall

For weathered rock or soil slopes, pinned mesh is a suitable alternative to sprayed concrete that involves fixing a steel mesh into the slope face using short anchors.

Pinned mesh walls provide support and confinement to materials at the exposed face of a slope and therefore are suitable to prevent loosening and failure of near-surface materials. They are commonly used to prevent rock spalling and rock fall on steep fractured rock faces. For this purpose, these solutions are generally more economical than constructing a separate retaining wall structure.

Before pinned mesh is installed, rock scaling or surface cleaning may be required.













#### Page 248 of 427 | NHC Assessment Manual – NHI Act



Rock scaling is the process of removing existing loose rock from slopes, which is generally carried out by abseilers using pry-bars and picks.

Anchored mesh solutions are not suitable for large deep-seated landslides because they do not provide the slope with resisting forces to support large heavy unstable soil or rock masses.

### h. Sprayed concrete retaining wall



Figure 57 Sprayed concrete retaining wall

A flowable concrete mix can be sprayed directly onto a slope using a specialised concrete pump. Sprayed concrete is generally only suitable on hard rock slopes because it can adhere to the rock face, often with the assistance of a steel reinforcement mesh.

Sprayed concrete walls provide support and confinement to materials at the exposed face of a slope and therefore are suitable to prevent loosening and failure of near-surface materials. They are commonly used to prevent rock spalling and rock fall on steep fractured rock faces. For this purpose, these solutions are generally more economical than constructing a separate retaining wall structure.

Before sprayed concrete is installed, rock scaling or surface cleaning may be required.

Sprayed concrete walls are not suitable for large deep-seated landslides because they do not provide the slope with resisting forces to support large heavy unstable soil or rock masses.















Page 249 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## iii. Retaining wall design considerations

a. Timber pole retaining wall design considerations

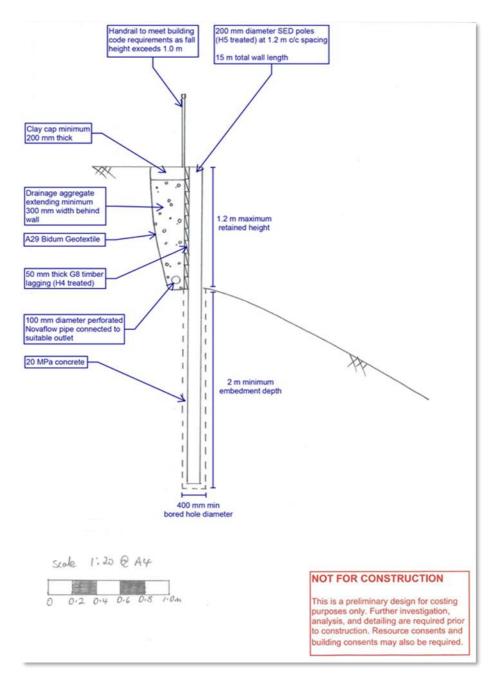


Figure 58 Key design elements of a timber pole retaining wall

Figure 58 provides an example of a remediation strategy sketch identifying the key design elements of a timber pole retaining wall. Key design considerations are also summarised in Table 35 below.













Page 250 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



### Table 35: Timber pole retaining wall design considerations

| Key design<br>components of timber<br>pole retaining walls | Comments   |
|--|--|
| Wall length  | Wall length should span across both evacuated<br>land and land at risk of imminent damage by<br>evacuation   |
| Retained height  | The conceptual remediation strategy should be provided for the maximum retained height.  |
| Embedment depth  | Required embedment depths vary greatly but they generally exceed 1.5 times the retained height.  |
| Pole diameter  | Generally cylindrical small end diameter (SED)<br>poles are utilised. They are available in diameters<br>ranging from 150 to 500 mm. For walls with short<br>retained heights, 100 mm or 125 mm square posts<br>may be an alternative.                       |
| Hole diameter  | Not applicable if driven timber poles are proposed.<br>Bored hole diameters should ensure suitable<br>concrete cover of the poles.   |
| Concrete strength  | Typically, 20 to 30 MPa concrete specified for bored holes.  |
| Pole spacing   | Generally, a pole spacing of 3 times the hole<br>diameter provides a suitable and efficient wall<br>design. Pole spacing is measured centre to centre.   |
| Lagging size and strength                                  | G8 grade rough-sawn timber 50 to 100mm thick is<br>generally suitable for a pole spacing up to 1.5m.<br>For larger pole spacings, SED poles may be<br>required for lagging.  |
| Timber treatment   | Generally, poles require H5 treatment and lagging requires H4 treatment.   |
| Drainage   | In most circumstances, subsoil drainage is<br>recommended behind the wall. This generally<br>comprises a perforated pipe at the base of the wall<br>and granular drainage aggregate extending the full<br>height of the wall, wrapped in filter fabric or an |



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Page 251 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design<br>components of timber<br>pole retaining walls | Comments  |
|--|---|
|  | approved alternative. This is generally topped with<br>a thin clay cap or impermeable paving at ground<br>surface.          |
| Handrail   | The <u>building code</u> requires a handrail or fall barrier<br>where there is a fall or retained height of<br>1 m or more. |

Specific circumstances may require additional design features associated with a timber pole wall, e.g.:

- scour protection such as riprap (e.g. angular rock or concrete), planting or rock mattress at the base of the wall in coastal or stream environments;
- ground anchors or tiebacks for walls with large retained heights or strict wall deflection limits;
- surface stormwater control such as diversion channels or cesspits.













#### Page 252 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### b. Timber crib retaining wall design considerations

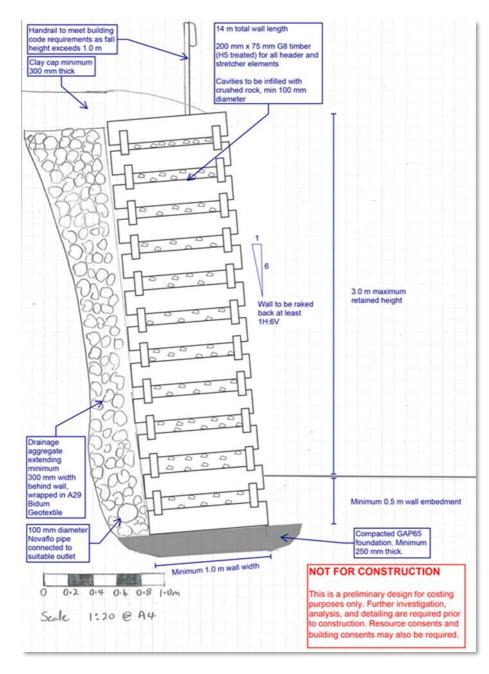


Figure 59 Key design elements of a timber crib retaining wall

Figure 59 provides an example of a remediation strategy sketch identifying the key design elements of a timber crib retaining wall. Key design considerations are also summarised in Table 36 below.

UNCLASSIFIED Appendix 2 - Land components and repair considerations













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Page 253 of 427 | NHC Assessment Manual – NHI Act

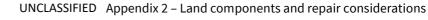
Version as at **13/5/2025** 



### Table 36: Timber crib retaining wall design considerations

| Key design components<br>of timber pole retaining<br>walls | Comments  |
|--|---|
| Wall length  | Wall length should span across both evacuated<br>land and land at risk of imminent damage by<br>evacuation.   |
| Wall length  | The conceptual remediation strategy should be provided for the maximum retained height.   |
| Retained height  | Wall width is controlled by the length of the<br>'header' timber elements. The wall width<br>determines the quantity of granular backfill<br>required.  |
| Wall width   | Wall width is controlled by the length of the<br>'header' timber elements. The wall width<br>determines the quantity of granular backfill<br>required.  |
| Timber elements  | The cross-sectional size, strength grade and treatment grade should be specified for the stretcher and header elements.   |
| Footing detail   | The width, thickness and material of the wall<br>footing should be specified. The footing is<br>generally constructed of compacted hardfill or<br>concrete.   |
| Granular fill  | The granular fill type should be specified for infilling the timber cells.  |
| Drainage   | In most circumstances, subsoil drainage is<br>recommended behind the wall. This generally<br>comprises a perforated pipe at the base. The<br>granular backfill in the wall cells is commonly<br>extended behind the wall to create a full height<br>vertical drain, wrapped in reinforced geotextile.<br>This is generally topped with a thin clay cap or<br>impermeable paving at ground surface. The<br>perforated pipe should be connected to a suitable |





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Page 254 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design components<br>of timber pole retaining<br>walls | Comments   |
|--|--|
|  | stormwater outlet, to prevent the collected water from discharging onto slopes.  |
| Handrail   | The <u>building code</u> requires a handrail or fall<br>barrier if there is a fall or retained height of 1 m or<br>more. |

Specific circumstances may require additional design features associated with a timber crib wall. These may include:

- Scour protection such as riprap, planting or geomat at the base of the wall in coastal or stream environments;
- Surface stormwater control such as diversion channels or cesspits.













### Page 255 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### c. Gabion basket retaining wall design considerations

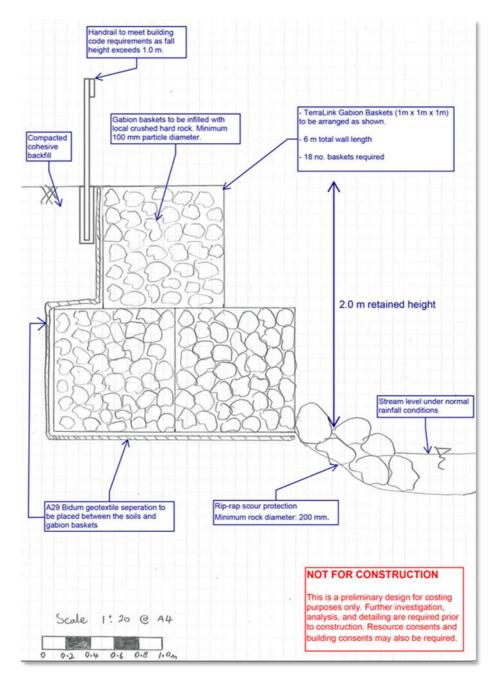


Figure 60 Key design elements of a gabion basket retaining wall

Figure 60 provides an example of a remediation strategy sketch identifying the key design elements of a gabion basket retaining wall. Key design considerations are also summarised in Table 37 below.

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Page 256 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 37: Gabion basket retaining wall design considerations

| Key design components of gabion basket retaining walls | Comments   |
|--|--|
| Wall length  | Wall length should span across both evacuated<br>land and land at risk of imminent damage by<br>evacuation.  |
| Retained height  | The conceptual remediation strategy should be provided for the maximum retained height.  |
| Gabion basket size and configuration                   | The indicative width, height and arrangement<br>of gabion baskets should be identified. Multiple<br>rows of gabion baskets may be required on the<br>lower layers to provide a sufficiently wide<br>foundation. Any required embedment of the<br>lower level of baskets should be specified.   |
| Crushed rock type and size                             | Identification of the type and size of crushed<br>rock used to fill the Gabion baskets will assist in<br>pricing the remediation strategy. Locally<br>sourced materials are more practical and<br>economic to transport to site.   |
| Scour protection                                       | Gabion basket walls are common remediation<br>strategies in stream or coastal environments.<br>Riprap may be commonly specified as scour<br>protection in front of the wall. A rock mattress<br>may also be specified beneath the gabion<br>basket wall to prevent scour undermining the<br>wall.                                      |
| Drainage   | Since gabion baskets are highly permeable, a<br>separate drainage system is generally not<br>required behind the wall, i.e. no perforated<br>pipe or drainage aggregate. However, a<br>reinforced geotextile is recommended across<br>the back face of the wall to prevent soils<br>migrating into and clogging the gabion<br>baskets. |

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Page 257 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design components of gabion basket retaining walls | Comments  |
|--|---|
| Handrail   | The <u>building code</u> requires a handrail or fall<br>barrier there is a fall or retained height of<br>1 m or more. |

### d. Concrete block retaining wall design considerations

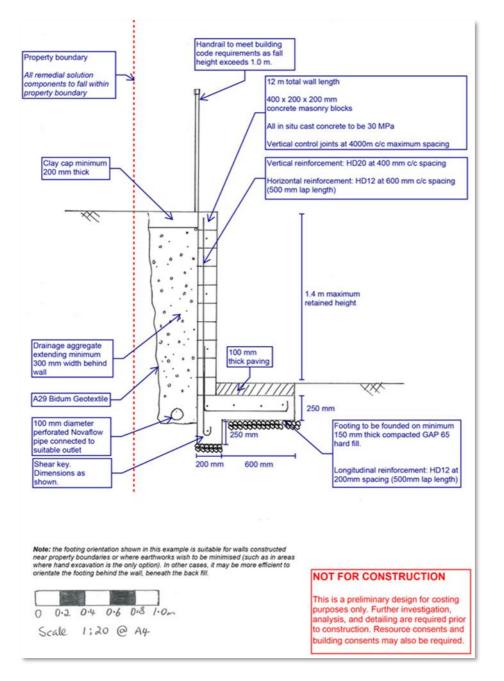


Figure 61 Key design elements of a concrete block retaining wall

Figure 61 provides an example of a remediation strategy sketch identifying the key

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### Page 258 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



design elements of a concrete block retaining wall. Key design considerations are also summarised in Table 38 below.

## Table 38: Concrete block retaining wall design considerations

| Key design<br>components of<br>concrete block<br>retaining walls | Comments  |
|--|---|
| Wall length  | Wall length should span across both evacuated land and land at risk of imminent damage by evacuation.   |
| Retained height  | The conceptual remediation strategy should be provided for the maximum retained height.   |
| Foundation<br>dimensions   | The width, thickness, embedment and orientation of<br>the concrete foundation should be specified. The<br>founding material should also be specified. This may<br>be natural soils or compacted hardfill.   |
| Steel reinforcement  | The diameter, grade and spacing of structural steel<br>reinforcement should be identified. For 'L' shaped<br>walls the reinforcement should form a structural<br>connection between the wall and the foundation.  |
| Concrete   | The concrete strength should be specified for the<br>block cavities and the foundation. Typically, 20 to 30<br>MPa concrete is specified.   |
| Backfill and drainage  | Backfill materials should be specified. This may be<br>able to include landslide inundation. Subsoil<br>drainage is usually specified behind the wall. This<br>generally comprises a perforated pipe at the base of<br>the wall and granular drainage aggregate extending<br>the full height of the wall, wrapped in filter fabric or<br>an approved alternative. This is generally topped<br>with a thin clay cap or impermeable paving at<br>ground surface. The perforated pipe should be<br>connected to a suitable stormwater outlet, to<br>prevent the collected water from discharging onto<br>slopes. |

**44** Insurance







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Page 259 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design<br>components of<br>concrete block<br>retaining walls | Comments  |
|--|---|
| Handrail   | The <u>building code</u> requires a handrail or fall barrier there is a fall or retained height of 1 m or more. |

Specific circumstances may require additional design features associated with a concrete block wall, e.g.:

- when base sliding is anticipated to be the critical failure mechanism of the wall, a shear key is often specified. This is an additional small concrete section that extends below the foundation base.
- when there are high groundwater levels, waterproofing is often proposed on the back side of the wall. This comprises an impermeable membrane that is painted or sprayed onto the wall. This is a common requirement for basement retaining walls within dwellings.
- surface stormwater control such as diversion channels or cesspits.

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Page 260 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





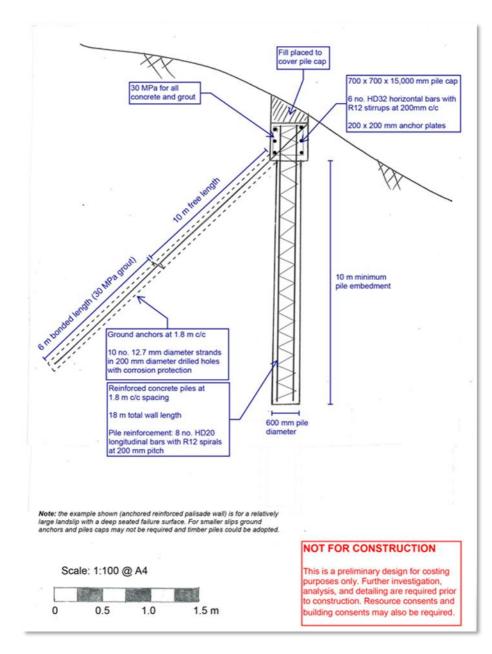


Figure 62 Key design elements of a palisade retaining wall

Figure 62 provides an example of a remediation strategy sketch identifying the key design elements of a palisade retaining wall. Key design considerations are also summarised in Table 39 below.















### Page 261 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 39: Palisade retaining wall design considerations

| Key design components<br>of palisade retaining<br>walls | Comments   |
|---|--|
| Wall length   | Wall length should span across both evacuated<br>land and land at risk of imminent damage by<br>evacuation.  |
| Pile length   | The piles should extend beneath the inferred<br>failure surface to embed into underlying stable<br>ground. Required embedment depths into stable<br>ground vary greatly but they generally range from<br>1 to 3 times the depth of the overlying unstable<br>ground. |
| Hole diameter   | Bored holes are typically adopted for both timber<br>and reinforced concrete palisade walls. For timber<br>palisade walls, the hole diameter should ensure<br>suitable concrete cover of the poles.  |
| Pile spacing  | Typically, a pile spacing of 3 times the hole<br>diameter provides a suitable and efficient wall<br>design. Pole spacing is measured centre to centre.   |
| Pile specifications                                     | For timber piles – timber pole diameter, timber<br>treatment grade (usually H5 treatment) and<br>concrete strength.  |
|   | For reinforced concrete piles – concrete strength,<br>number, size and grade of longitudinal bars, size<br>and pitch of spiral shear reinforcement.  |

Specific circumstances may require additional design features associated with a palisade retaining wall, e.g.:

- a capping beam may be specified to tie together the piles at surface level. Capping beam dimensions and reinforcement details should be specified.
- ground anchors may be specified for an anchored palisade wall. A capping or waler beam is required if ground anchors are adopted. See Appendix 2.c.ii.e Palisade wall in this Manual for ground anchor details.
- surface protection measures such as planting, geomat or riprap may be specified to prevent erosion or scour exposing the buried wall.













Page 262 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



f. Soil nail, rock bolt and rock anchor retaining wall design considerations

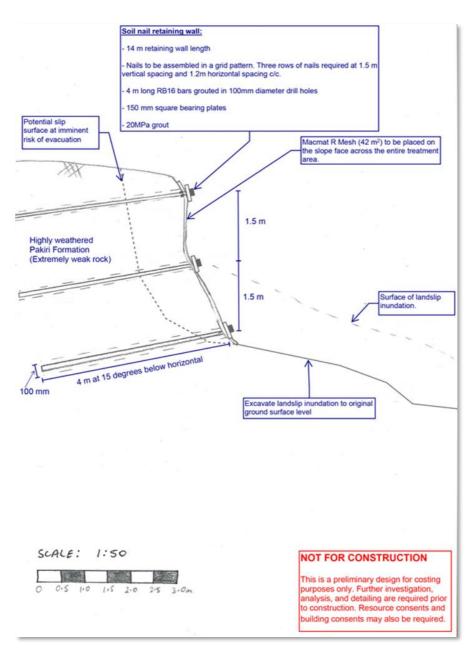


Figure 63 Key design elements of a nail/anchor retaining wall sketch

Figure 63 provides an example of a remediation strategy sketch identifying the key design elements of a nail/anchor retaining wall. Key design considerations are also summarised in Table 40 below.













Page 263 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 40: Soil nail, rock bolt and anchor retaining wall design considerations

| Key design components<br>of soil nail, rock bold<br>and anchor retaining<br>walls | Comments  |
|---|---|
| Wall area   | The area of the slope face requiring treatment<br>should be specified. The treatment should<br>stabilise evacuated land and land at risk of<br>imminent damage by evacuation.   |
| Nail/anchor layout  | The required number of rows should be specified along with the anchor spacing along the length of the slope.  |
| Nail/anchor dimensions  | The total length of the nail or anchor should be specified, along with the drilled hole diameter and indicative hole inclination.   |
| Nail/anchor materials   | The grade and diameter of the nail or anchor<br>strands should be specified. Soil nails consist of<br>single steel bars, whereas anchors comprise<br>multiple steel strands.  |
| Grouting  | Grout strength should be specified. Rock anchors<br>are not grouted along their entire length. The rock<br>anchors' 'fixed' length and 'free' length should be<br>specified.  |
| Slope face components   | Components are required on the slope face to<br>distribute the support between the discrete<br>anchors. Each nail or anchor requires a bearer<br>plate. Geomat or steel mesh is also commonly<br>installed across the treated slope face. |

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### Page 264 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



### g. Pinned mesh retaining wall design considerations

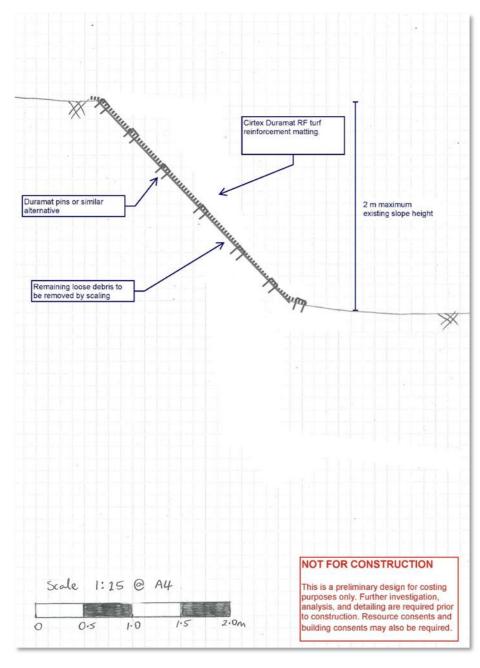


Figure 64 Key design elements of a pinned mesh retaining wall

Figure 64 provides an example of a remediation strategy sketch identifying the key design elements of a pinned mesh retaining wall. Key design considerations are also summarised in Table 41 below.

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Page 265 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 41: Pinned mesh retaining wall design considerations

| Key design components<br>of pinned mesh<br>retaining walls | Comments  |
|--|---|
| Wall area  | The area of the slope face requiring pinned mesh<br>treatment should be specified. This area should<br>cover the area of the slope at risk of imminent<br>damage by evacuation as a direct result of the<br>natural hazard event. |
| Mesh type  | Geomat is commonly used for soil slopes. Steel mesh may be adopted on rock slopes.  |
| Anchor details   | Anchor type, layout and embedment should be specified.  |

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### Page 266 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### h. Sprayed concrete retaining wall design considerations

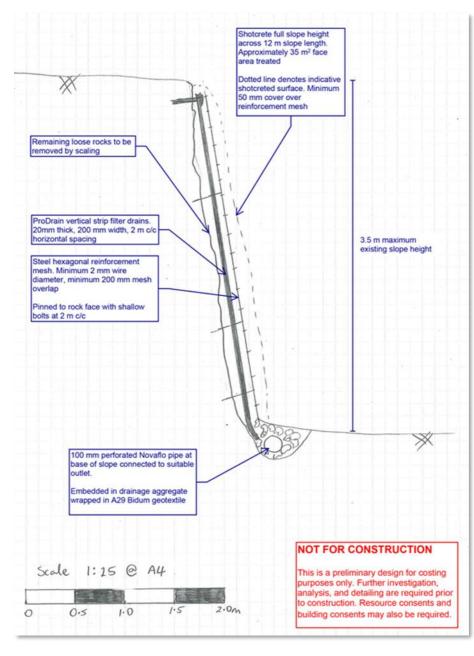


Figure 65 Key design elements of a sprayed concrete retaining wall

Figure 65 provides an example of a remediation strategy sketch identifying the key design elements of a sprayed concrete retaining wall. Key design considerations are also summarised in Table 42 below.

UNCLASSIFIED Appendix 2 - Land components and repair considerations











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Page 267 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Table 42: Sprayed concrete retaining wall design considerations

| Key design components<br>of sprayed concrete<br>retaining walls | Comments   |
|---|--|
| Wall area   | The area of the slope face requiring sprayed<br>concrete treatment should be specified. This area<br>should cover the area of the slope at risk of<br>imminent damage by evacuation as a direct result<br>of the natural hazard event.   |
| Rock scaling and preliminary works                              | The extent of any rock scaling or clearing of debris<br>should be specified before carrying out sprayed<br>concrete treatment.   |
| Steel reinforcement   | A steel reinforcement mesh should be specified if required.  |
| Drainage  | A drainage system may be installed to prevent<br>build-up of water pressures behind the sprayed<br>concrete facing. Drainage systems usually<br>comprise vertical fabric strip drains placed on the<br>rock face beneath the sprayed concrete.<br>Alternatively, horizontal weep holes may be<br>drilled into the slope. |

## d. Bridges and culverts

## i. Common bridge and culvert remediation strategies

Bridges and culverts are used when a pedestrian or vehicle crossing is required across a waterway.

Culverts are suitable for sites with smaller spans (bank to bank) and smaller flows. Concrete box culverts are commonly used, and standard sizes are available from precast concrete manufacturers. Single barrel circular culverts are an alternative option, but generally only suitable for narrow stream widths.

UNCLASSIFIED Appendix 2 - Land components and repair considerations









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Page 268 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 





Figure 66 Culvert

A bridge remediation strategy is generally more suitable if:

- a waterway is wider than 2 m (bank to bank);
- the site has an annual rainfall of greater than 1800 mm; or
- the site has a large rainfall catchment area (e.g. at the bottom of a large gully).

Single-span beam bridges are generally sufficient for residential applications. They are most economical for spans less than 10 m. Timber beams are usually adopted for short spans and lightly loaded bridges. For longer spans and bridges facilitating vehicle crossings, steel or concrete beams may be adopted.



Figure 67 Rural residential bridge

Bridge abutments also require design to transfer load from the bridge into the stream banks. If the existing bridge has been damaged due to a natural hazard and the stream banks are stable, shallow concrete footings may be suitable. More commonly, stream banks are unstable due to a landslide or scour and require a retaining wall to stabilise the bank. Bridge abutments may be integrated with common retaining wall remediation strategies, e.g. gabion basket walls or piled

UNCLASSIFIED Appendix 2 - Land components and repair considerations

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### Page 269 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



retaining walls.

## ii. Bridge and culvert design considerations

## Table 43: Bridge design considerations

| Key design<br>components of<br>bridges | Design considerations  |
|--|--|
| Bridge span                            | The bridge should span to suitable bridge abutment<br>locations and not constrict the existing stream width.<br>For spans of less than 10 m, single span bridges are<br>suitable. For larger spans, central piers may be a<br>suitable option. However, the effect on the central<br>pier on stream flows needs to be considered.  |
| Bridge superstructure<br>materials     | Timber beams and decking prove economical for<br>short span, lightly loaded bridges. For bridges with<br>longer spans and/or vehicle loading, steel or precast<br>concrete beams may be required.  |
| Bridge height                          | Bridge height is generally controlled by flood levels.<br>Generally, bridges should be designed to clear a 1-in-<br>100-year flood event.  |
| Bridge abutments                       | For stable banks, shallow concrete footings may be<br>suitable. Timber or concrete piled foundations are<br>common where steeply sloping banks are present.  |
| Retaining wall                         | A retaining wall may be required to stabilise landslides<br>or scour in stream banks. Gabion basket or piled<br>retaining walls are common options (see Appendix 2<br>Section c.ii.a Timber pole retaining wall and Section<br>c.ii.c Gabion basket retaining wall in this Manual).<br>Bridge abutments may be separate to, or integrated<br>with, retaining wall remediation strategies. For<br>example, a concrete piled retaining wall may be<br>constructed to stabilise the stream bank and support<br>the vertical loading from the bridge deck above. |
| Scour protection                       | Scour protection is often required to prevent future flood events undermining the bridge abutments.  |



UNCLASSIFIED Appendix 2 – Land components and repair considerations

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Page 270 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Key design<br>components of<br>bridges | Design considerations  |
|--|--|
|  | Common scour protection methods include riprap, gabion baskets or planting.              |
| Handrail                               | The <u>building code</u> requires a handrail or fall barrier if fall heights exceed 1 m. |

## Table 44: Culvert design considerations

| Key design components<br>of culverts | Design considerations  |
|--------------------------------------|--|
| Waterway width                       | Culverts are generally only suitable for waterways<br>less than 2 m wide. Culverts should be selected to<br>avoid constricting the width of the stream, as this<br>may result in increased water velocities and<br>potential flooding. Box culverts are commonly<br>adopted, or single barrel circular culverts may be<br>suitable for narrow waterways. |
| Culvert size                         | The culvert should be sized to accommodate flows<br>during flood events. Major culverts are typically<br>designed for a 1-in-100-year event, while minor<br>culverts may be able to be designed for smaller<br>flood events. Design for flooding requires<br>consideration of rainfall in the area and rainfall<br>catchment size or properties.         |
| Culvert length                       | The length of the culvert will generally be governed by the required cross width above.  |
| Ecological considerations            | The culvert should be designed to accommodate<br>any fish or other species that occupy the<br>waterway.  |
| Culvert strength                     | The culvert must have the structural capacity to<br>support loads from above. These loads commonly<br>include permanent loading from soil and<br>temporary vehicle loading.  |
| Scour protection                     | Scour protection may be required, particularly at the entrance of the culvert to prevent scour   |

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Page 271 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design components<br>of culverts | Design considerations  |
|--------------------------------------|--|
|                                      | undermining the structure. Riprap, rock  |
|                                      | mattresses or geomat may be suitable   |
|                                      | remediation strategies. Scour protection should  |
|                                      | consider ecological considerations.  |
| Handrail                             | The <u>building code</u> requires a handrail or fall barrier if fall heights exceed 1 m. |

## e. Inundated land (falling, sliding, flowing or ejection)

Inundation<sup>114</sup> is a phenomenon where the existing land in a location has not moved or been damaged but has been covered with debris that has travelled from another location. The subsequent sections focus on remediating inundation from soil and rock debris.

## i. Common inundation remediation strategies

## a. Retaining wall for inundation

Where the landslide results in evacuation and inundation of insured land, the geotechnical engineer typically recommends a remediation strategy involving removing the debris and constructing a retaining wall. In addition to removing any identified imminent damage risk of new inundation and/or re-inundation, this remediation strategy would also reinstate the evacuated land. For further details, see the section above on retaining walls.

b. Catch fence for inundation

Where the landslide has resulted in inundation only to insured land (i.e. no evacuation of insured land), engineers typically recommend a repair involving the removal of debris and constructing a catch fence.

A catch fence may be an appropriate remediation strategy when the imminent damage of new inundation and/or re-inundation causes imminent damage risk to the residential building. However, a catch fence does not eliminate imminent damage of new inundation and/or re-inundation to the land. Instead, it 'catches' the new inundation and/or re-inundation, which must later be removed.

UNCLASSIFIED Appendix 2 - Land components and repair considerations







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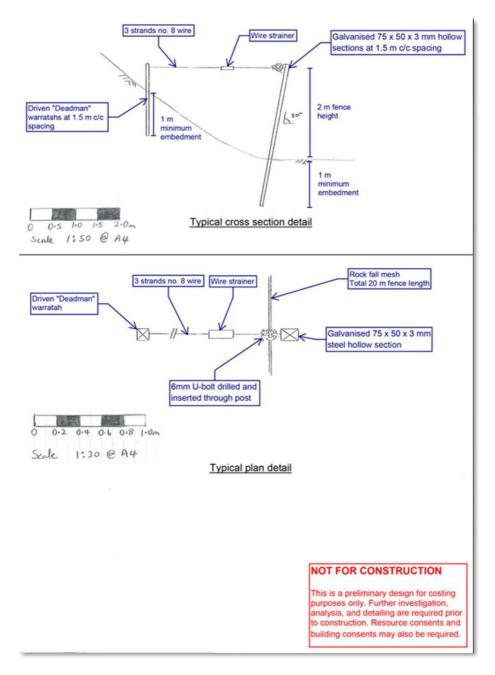




### Page 272 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





### Figure 68 Key design elements of a rockfall catch fence

Figure 68 provides an example of a remediation strategy sketch identifying the key design elements of a rockfall catch fence that removes the imminent damage risk of inundation. Key design considerations for inundation are summarised in Table 45 below.

c. Removing debris

Following on from the above, when there is no imminent damage risk to the residential building, consider a remediation strategy that removes the inundation debris that has already occurred as well as removing the imminent damage inundation debris (on the basis that it would occur). This remediation strategy is











### Page 273 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



typically more cost-effective, but more importantly, it fully repairs the natural hazard damage to insured land, whereas a catch fence does not.

Where the inundation debris has been caused by volcanic activity, the remediation strategy generally includes removing the debris. However, if the inundation debris is unrepairable<sup>133</sup> (e.g. debris from lava flow), you must consider DOV.

In all cases, when determining which remediation strategy to apply, consider any applicable risks<sup>22</sup> to the occupants and general public.

## ii. Design considerations for removing inundation

| Key design<br>considerations for<br>removal of inundation | Comments  |
|---|---|
| Method of inundation<br>removal                           | Consider whether there is available access for an<br>excavator. In confined spaces or spaces with poor<br>accessibility, inundation may need to be removed<br>by hand. In areas where there is risk of damaging<br>existing services, vacuum excavation may be<br>considered.   |
| Land contamination  | Inundation debris may be contaminated from<br>existing land contamination, e.g. asbestos, lead<br>or hydrocarbons in near-surface soils. The<br>remediation strategy for the natural hazard<br>damage must consider the contaminated land<br>only in respect of repairing the damage to insured<br>land. The cost of addressing pre-existing<br>contamination to the site is not covered under<br>the NHI Act. However, the cost of remediating any<br>confirmed land contamination as required to<br>repair natural hazard damage to the insured<br>residential land is covered. |
| Re-use of material  | The cost of the remediation strategy depends on<br>whether the inundated material must be<br>disposed offsite. Any contaminated material must   |

### Table 45: Inundation removal design considerations













<sup>&</sup>lt;sup>133</sup> For more information on unrepairable land, see Section 2.d.ii Basis of cover for 'residential land' in this Manual.

Page 274 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Key design<br>considerations for<br>removal of inundation | Comments   |
|---|--|
|   | be disposed offsite in an approved facility.<br>Uncontaminated landslide inundation may be<br>able to be reused as backfill if a retaining wall is<br>constructed as a remediation strategy.   |
| Source of inundation                                      | Once existing inundation has been cleared, the<br>method to reduce the risk of imminent damage<br>from additional inundation depends on the<br>source of the inundation. If the source is outside<br>the property boundary, the remediation strategy<br>cannot stabilise the source. Instead, it must<br>protect the insured residential land and buildings<br>within the subject property. In this case, a<br>solution such as a catch fence, bund or trench is<br>generally the most applicable remediation<br>strategy. This will help protect the property<br>against damage from future inundation that is<br>imminent as a direct result of the natural hazard<br>that has occurred. |
|   | If the source of inundation is a landslide within<br>the property boundary, it is generally best to<br>construct a retaining wall that will stabilise the<br>slope and remove the risk of imminent damage<br>from future evacuation. This will also remove the<br>risk of imminent damage from inundation.   |

## f. Evacuated land (including scouring)

## i. Common evacuated land remediation strategies

Evacuation of land due to a landslide is usually remediated using a retaining wall. The type of retaining wall selected depends on the nature of the landslide, the ground conditions and the construction constraints. See Appendix 2.c.ii Common retaining wall remediation strategies in this Manual, which outlines common retaining wall remediation strategies for landslides.













### Page 275 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



Occasionally, it will be sufficient and more economical to remediate evacuated land without constructing a retaining wall. Small shallow landslides in soft soils may be able to be remediated by excavating evacuated material and replacing it with a more component material such as hard fill or flowable fill. Slopes with high groundwater conditions may also be stabilised using subsoil drainage, e.g. counterfort drains or horizontal drains. Care should be taken if drainage alone is adopted as a long-term remediation strategy. This is because the stability of the slope is reliant on the drainage remaining operational across the design life. Subsoil drainage regularly becomes blocked or damaged without scheduled maintenance.

In some claims it may not be feasible to remediate<sup>139</sup> evacuated land. This is common when evacuation occurs at the top of cliffs.

Evacuation due to scour is generally remediated by reinstating the original ground profile. For areas of minor scour, planting or geomat are generally suitable remediation strategies. For larger-scale scour, riprap, gabion baskets or other retaining walls may be suitable.

## ii. Evacuated land design considerations

| Key design<br>considerations for<br>evacuated land  | Comments  |
|---|---|
| Depth of landslide, slope<br>angle, site access<br>constraints, surcharge,<br>ground conditions | The common recommended remediation strategy<br>is a retaining wall.<br>See Appendix 2.c.iii Retaining wall design<br>considerations in this Manual, which outlines the<br>design considerations for retaining wall<br>remediation strategies. The table below outlines<br>design considerations specifically for remediating<br>evacuation caused by scour. |

### Table 46: Evacuated land design considerations

Table 46 outlines design considerations specifically for remediating evacuation caused by scour.

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Page 276 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 





Figure 69 Riprap scour protection

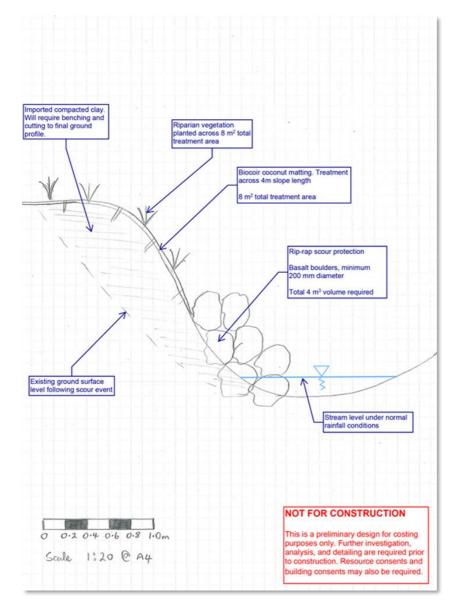


Figure 70 Key design elements of riprap scour protection

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### Page 277 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Figure 70 provides an example of a remediation strategy sketch identifying the key design elements of riprap scour protection. Key design considerations are also summarised below in Table 47.

## Table 47: Design considerations for remediating evacuation due to scour

This table is for instances where a retaining wall would not be required.

| Key design<br>considerations<br>for evacuation<br>due to scour | Comments   |
|--|--|
| Flow rates   | The type of scour protection and remediation depends on<br>the velocity and flow rate of surface water during a flood<br>event. Smaller flows may be remediated using planting,<br>geomat or small riprap. As flow rates increase, larger riprap,<br>gabion baskets and rock mattresses may be required.   |
| Scale of<br>damage   | For small-scale scour damage, it may be more economical to<br>remove soils prone to scour (e.g. an area of loose sand fill)<br>and replace with more resilient materials such as hardfill or<br>flowable fill. For larger scale failures, it is generally more<br>economical to construct a scour protection layer or<br>structure such as gabion walls or riprap. |
| Ecological<br>conditions                                       | In ecologically sensitive areas such as waterways that house<br>aquatic species, 'hard engineering' solutions such as riprap<br>and concrete may not be suitable. Alternative solutions such<br>as coconut matting and planting may be required.   |

# g. Cracking (lateral spreading and oscillation movement)

## i. Common cracking remediation strategies and design considerations

Cracks formed as a result of lateral spreading or oscillation movement can generally be infilled by means of backfill. Backfill might involve gravel, flowable fill or bentonite slurry. The type of backfill should be selected based upon the crack location, crack size and environmental conditions. Cracks that are narrow or difficult to access may be best suited to flowable fill which can infill narrow cracks and form a solid material without requiring compaction. Flowable fill should be avoided in environmentally sensitive areas such as near streams or in aquifers.













### Page 278 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Lateral spreading may result in differential settlement of building foundations. See Appendix 2 Section f Evacuated land (including scouring) in this Manual for remediation strategies for differential settlement.

In rare circumstances, the movement of land due to lateral spreading may cause residential land to be at risk of imminent damage from further movement due to a landslide in the next 12 months. In this case, an in-ground palisade wall may also be required to protect and stabilise the land.

# h. Undulating land

# i. Common undulating land remediation strategies and design considerations

Undulations in land occur when compression forces cause 'buckling' of land. Land undulation may be observed as a result of a landslide. For remediation strategies for this type of claim, see Appendix 2 Section f Evacuated land (including scouring) and Section c Retaining walls in this Manual.

Undulating land can also be caused by compression forces during an earthquake event. If undulation has occurred in a lawn area, this generally only requires regrading using an excavator to return the insured land to its existing ground profile.

Undulation beneath an existing residential building may cause differential movement of the foundations and potential structural damage. If structural damage is minor, the building may be able to be underpinned, jacked up and packed with flowable fill or similar. If more significant structural damage has occurred to the foundations or superstructure of the building, it may not be practical to remediate the building and it may be considered a total loss.

# i. Localised ponding

# i. Common localised ponding remediation strategies and design considerations

Ponding is generally caused by a local depression forming on the land surface. This may be caused by liquefaction-induced settlement, or it could be a depression formed behind a rotated retaining wall where land evacuation (i.e. a landslide) has occurred.

Localised ponding can generally be remediated by regrading the landform so that surface water runs off towards an outlet. This may require importing some fill to infill

UNCLASSIFIED Appendix 2 - Land components and repair considerations

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## Page 279 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



the localised depression. Outlets may include existing catch pits, existing streams or existing gutters.

Where it is difficult to regrade the landform, a soak pit could be installed in the location of ponding. A soak pit is an underground chamber of granular material, typically wrapped in geotextile. The soak pit allows surface water to percolate into the granular material during heavy rainfall, which can then slowly dissipate into the surrounding ground over time.

# j. Localised settlement

# i. Common localised settlement remediation strategies and design considerations

Localised settlement is generally only observed in earthquake damage claims where liquefaction has occurred on the site or, less commonly, in hydrothermal claims where the soil has been softened and the ground surface has permanently subsided.

These forms of localised settlement that have not caused damage to an existing structure can simply be remediated by placing fill to return the ground surface to its previous level.

## k. Contaminated land

Contaminated land is defined under the <u>RMA</u> as land with a hazardous substance in or on it that has, or is reasonably likely to have, significant adverse effects on the environment.

## i. Key considerations for remediation

There are generally two types of contamination encountered in NHCover claim assessments:

## a. Temporarily contaminated land

A natural hazard that has occurred may cause residential land to become temporarily contaminated, e.g. by sewage that has flowed onto the surface of the land. In these cases, the contamination often breaks down to safe levels over a short period, e.g. the bacteria in the sewage breaks down under exposure to ultraviolet light (sunshine) and rainfall. In these situations, a land repair is not required because the land has 'self-repaired', or will do so in the short term.

Where the land has not self-repaired, or will not do so in the short-term, e.g. when sewage has flowed onto the land under a residential building where sunshine or

UNCLASSIFIED Appendix 2 - Land components and repair considerations







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### Page 280 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



rainfall cannot reach, you must provide an appropriate remediation strategy e.g. applying lime to the affected area.

### b. Potentially contaminated land

Potentially contaminated land refers to residential land that is identified on a local or regional authority register as potentially being contaminated from previous land use. It is not the result of a natural hazard.

This type of land contamination has mainly been caused by past practices where hazardous substances have been used, stored or disposed of in an unsafe way. These substances may seep through the soil into groundwater or be carried to nearby land and waterways in rainwater or as dust.

To help with identifying potentially contaminated land, the Ministry for the Environment has compiled a list of activities and industries commonly associated with contaminated land. This list is called the Hazardous Activities and Industries List (HAIL), and it can be used to identify potentially contaminated sites. You must investigate individual HAIL sites further to determine whether they are contaminated.

Include remediation of any confirmed land contamination in the NHCover land claim as required to repair natural hazard damage to the insured residential land. The cost of addressing pre-existing contamination to the site is not covered under the NHI Act. In situations where there is land contamination, you should typically engage an appropriate expert (in contaminated land) to carry out a site-specific assessment and provide an appropriate remediation strategy. The expert can also provide advice on complying with the requirements of the <u>Resource Management (National</u> <u>Environmental Standard for Assessing and Managing Contaminants in Soil to Protect</u> <u>Human Health) Regulations 2011</u>.

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Page 281 of 427 | NHC Assessment Manual – NHI Act



# Appendix 3. Remediation strategy, standards and costing

#### **Overview** a.

The purpose of this appendix is to provide practical guidance on preparing and costing your remediation strategy.

When preparing the remediation strategy, consider the requirements for the strategy to:

- meet the NHI Act requirements;134 •
- be lawful;135
- be fit for purpose;
- be practical and achievable;
- take into consideration any site, access, logistical and professional investigation • issues relevant to the specific damage location and any relevant enabling works (additional funds may be required to achieve this.);
- consider any other properties<sup>136</sup> and how they may affect the remediation strategy for the property you are assessing;
- take into account any other relevant factors that you may identify.

When costing the remediation strategy, use your construction knowledge and experience to identify actual costs that form the remediation settlement (as opposed to contingency costs based on what might happen). If, during the actual repair, additional repairs or costs are identified, information supporting this should be provided for your consideration. If you do not have construction knowledge and experience, seek guidance from appropriate experts.<sup>5</sup>

Consider factors that may affect the repair cost and/or how the remediation strategy can be achieved practically, e.g.:

- logistics of getting labour and materials to site;
- constraints on labour and materials; •
- need for specialist expertise.

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<sup>&</sup>lt;sup>134</sup> See Appendix 3 Section b Reinstatement standards under the NHI Act in this Manual.

<sup>&</sup>lt;sup>135</sup> See Appendix 3 Section c Regulations and compliance in this Manual.

<sup>&</sup>lt;sup>136</sup> See Section 8 Assessing damage across multiple properties in this Manual.

Page 282 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### b. Reinstatement standards under the NHI Act

During the assessment process,<sup>137</sup> you will have established the extent of natural hazard damage (if any). This is essential to determine a remediation strategy that will replace or reinstate the property to the standard required by the NHI Act, and the cost of doing so.

This section outlines some of the key NHI Act considerations.

### i. **Building repair considerations**

The NHI Act insures residential buildings against natural hazards for their replacement cost<sup>138</sup> up to the building cover cap.

### ii. Land repair considerations

The NHI Act insures residential land on an indemnity basis (up to the land cover cap).<sup>139</sup> But before you can determine whether the land cover cap is reached, you must assess the amount of the natural hazard damage on the basis of the actual loss suffered. This is quantified using:

- the reinstatement cost;<sup>139</sup> and/or
- the DOV.139

When preparing a remediation strategy for land, the following considerations may also apply.

a. One repair method that repairs several types of damage

When determining the residential land repair, you should also consider that one repair method may repair several types of land damage. Under the conceptual remediation strategy, the repair method for repairing land for one type of land damage may also repair other land damage types at the same time. For example, repairing evacuated land may fully or partially remove the risk of imminent damage from further evacuation and inundation.

Appendix 3 - Remediation strategy, standards and costing vero











<sup>&</sup>lt;sup>137</sup> See <u>NHC Claims Manual – Residential Buildings – NHI Act, Section 6 How is the natural hazard</u> damage assessed?.

<sup>&</sup>lt;sup>138</sup> See Section 2.d.i Basis of cover for a 'residential building' in this Manual.

<sup>&</sup>lt;sup>139</sup> See Section 2.d.ii Basis of cover for 'residential land' in this Manual.

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### Page 283 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



b. Land damage that is unrepairable or that is unlikely to be repaired

Residential land damage may be unrepairable, or unlikely to be repaired in the following situations:

- where a repair of the damage is not practical and achievable;
- where a lawful repair is not possible, e.g. it may not be possible to get a resource consent to carry out the repair;
- where you are satisfied that the customer does not intend to undertake the repair of the land within a reasonable period (if at all); or
- where the cost of the repair work is disproportionate to the reduction of value to the property caused by the land damage. In this case, you must consider the customer's circumstances (including their stated intentions in relation to repair of the land).

In these cases, it may be appropriate to settle a residential land claim (or part of that claim) on the basis of the reduction of value to the property caused by the land damage. This mode of settlement is an alternative to settlement on the basis of the cost of repairing that damage. This reduction of value is called DOV.

In the past, we have settled on the basis of DOV in some cases where there are certain types of complex land damage. For example, we have settled on the basis of DOV for some properties with ILV and IFV land damage. The claim may be settled on the basis of DOV where land has been lost, e.g., a cliff has collapsed, and cannot be restored. For more information on settling a residential land claim (or part of it) by paying DOV, see <u>NHC Claims Manual – Residential Land – NHI Act – Section 7.A.c.ii</u> What method is used to quantify the actual loss suffered? and the Land Valuation Guide – NHI Act.

c. Land that is contaminated or potentially contaminated

## Contaminated land that is the direct result of a natural hazard occurring

If residential land is contaminated as a direct result of a natural hazard (and this contamination is not temporary), this may be considered natural hazard damage. An example of this type of contamination is residential land being inundated by debris containing asbestos.

You must treat this contamination as natural hazard damage.

In these situations, you should typically engage an appropriate expert (in contaminated land) to carry out a site-specific assessment and provide an appropriate remediation strategy.

See also Section 1.h.v Health and safety in this Manual.

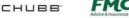
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### Page 284 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Temporarily contaminated land

Sometimes a natural hazard causes residential land to become temporarily contaminated (for example, sewage seeps to the surface of the land). This contamination often breaks down to safe levels over a short period (for example, because the bacteria in the sewage break down in the sunshine or normal rainfall).

In these situations, the land has 'self-repaired' (or will in the short term), and you do not need to cost a repair unless there are other types of land damage to the insured land. If there are no other types of land damage to the insured land, the land claim entitlement is typically zero.

Contaminated land that is due to a pre-existing condition

'Potentially contaminated land' refers to residential land that is identified on a local or regional authority register as potentially being contaminated from previous land use. In other words, the contamination is not the result of a natural hazard. An example is residential land on a Hazardous Activities and Industries List (HAIL) site that is listed on the Environment Canterbury (ECan) Listed Land Use Register (LLUR). You should be aware of and consider other equivalent lists that apply to the location of the damaged property you are assessing.

You must meet all health and safety requirements in connection with any visit to potentially contaminated land.

You must consider any contamination-related costs incurred in carrying out the repair of natural hazard damage, unless the land is only temporarily contaminated. Those costs may include complying with the requirements of the <u>Resource</u>. Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011. The cost of addressing the effects on the site itself (e.g. the pre-existing contamination) is not covered under the NHI Act.

### **Regulations and compliance** C.

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When choosing a remediation strategy, you must consider applicable regulations and legislation. The main pieces of legislation are listed below, but this is not an exhaustive list.

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Appendix 3 – Remediation strategy, standards and costing vero

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### Page 285 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



From an engineering perspective, compliance with the following is the absolute minimum:

- All new building work or building repair work must comply with the requirements of the **Building Act 2004**, and in particular:
  - o the New Zealand <u>building code</u>, which is contained in regulations under the Building Act 2004.
  - o section 17, which states that all building work must comply with the building code to the extent required by the Building Act 2004.
  - o section 175, which relates to the Building Advisory Panel Chief Executive issuing guidance to the industry, e.g. MBIE Guidance on Repairing and Rebuilding Dwellings Affected by the Canterbury Earthquakes. This advice, however, does not constitute NHI Act policy response.
- All repair work must also comply with the environmental obligations of the <u>RMA</u>. This includes aspects such as earthworks, sediment and erosion control, vegetation clearance, maintaining site stability, and heritage considerations.

Other legislation that is commonly considered for repair work includes:

- the Heritage New Zealand Pouhere Taonga Act 2014, e.g. when repair work is required on heritage listed buildings or structures, or to land that is, or is suspected to be, of archaeological significance.
- the <u>HSWA</u>, which all physical operations required to complete the repair work must comply with. This is especially important for reinstatement and replacement. For further details, see the General Health and Safety Guide - NHI <u>Act</u>.

All regions and cities have their own district plans, policies and bylaws that you must also review and consider for repair work. However, these always refer back to the Building Act 2004 and the RMA.

### d. Which costs are involved?

When considering the total cost to replace and/or reinstate the damaged parts of the residential building or to reinstate the damaged parts of the residential land, you must apply:

- all findings that you identified when determining the remediation strategy, e.g. local TA requirements, building materials that have been damaged, age of the residential building;
- substantive works;

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preliminary and general costs (P and G), margin and GST.

UNCLASSIFIED

Appendix 3 – Remediation strategy, standards and costing vero







### Page 286 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Where applicable, the total cost must also include:

- enabling works;
- professional and compliance fees;
- additional health and safety costs;
- travel costs.

Regardless of the severity of damage, the total cost will include some substantive works, P and G, margin and GST. However, for moderate and severe damage, additional costs are likely to be incurred. The applicable costs will depend on the facts of the specific claim.

The amount of P and G and margin is to be in line with accepted industry standards.

All invoices received for work already carried out will be inclusive of any applicable P and G, margin and GST.

#### Substantive works i.

Substantive works are the repairs required to replace or reinstate the property damaged by a natural hazard. In some cases, carrying out substantive works will affect part of the residential building or land that was not damaged by a natural hazard. In these cases, NHCover includes the cost of:

- the work on the undamaged part of the property that is necessary to carry out the repair;
- reinstating the part if it was unavoidably damaged in the course of the work being done on it;
- relocating parts of the residential building (if applicable), even if this includes moving parts of the residential building that are undamaged; and
- modifying the part if any laws require it to be modified as a result of the work being done on it.

You must also consider:

- any restricted building work; and
- any legal requirement to undertake modifications (at the time or in the future).
- a. Restricted building work

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Restricted building work should be scoped and costed by a person who is sufficiently experienced, qualified and skilled for the purpose. Restricted building work is any work that:

- requires a building consent; and
- involves or affects a home's primary structure, weathertightness, or certain fire safety design.

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Appendix 3 – Remediation strategy, standards and costing vero









### Page 287 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### b. Legal obligation to undertake modifications

If, immediately before the natural hazard occurred, there was a legal obligation for the customer to undertake modifications to the property (at the time or in the future), you must exclude the cost of these from the scope of works. An example is where an earthquake-prone building notice has been issued and seismic repairs are required.

You should determine the most appropriate approach to cost the repair based on the circumstances. The approach may be to:

- complete the costings as if all legally required modifications will occur, but the cost of those modifications will be funded separately; or
- complete the costings as if the residential building or land will be repaired without the legally required modifications being made.

## ii. Preliminary and general costs (P and G)

Preliminary and general costs cover any additional requirements to facilitate the repair of natural hazard damage. Depending on the type of job being costed, this can be added as a percentage on the entire job, or as individual line items. It must always be clear what makes up your P and G.

P and G is applied to the total cost of the repair up to this point, but it should not be added to any P and G item that has been costed as a separate line item. P and G is applied before the margin and GST components.

## iii. Margin

The margin is the cost that covers the contractor's profit and overhead costs. Margin is applied to the total of the repair cost up to this point (which includes P and G). Margin is applied before the GST component.

## iv. Goods and services tax (GST)

When assessing the cost of repair for the residential building and/or land, the GST component that has been paid or will be payable by the customer when carrying out the repair must be set out in the scope of works in accordance with sections 32 and 41 of the NHI Act. GST is applied to the total repair cost up to this point including P and G and margin.

## v. Enabling works

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Enabling works are usually works required to facilitate substantive repairs. They are generally related to gaining access to the site, but in rare cases can include things

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Appendix 3 – Remediation strategy, standards and costing







### Page 288 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



like removing a garden shed, or tree and garden protection. They can also be used when they will make a repair more efficient or cost-effective to complete, e.g. building a platform to place a larger excavator on a site may be more cost-effective than using a smaller excavator over a long period of time.

Examples of enabling works include:

- constructing an earth platform to position a digger for excavation;
- decontaminating a site where required under the <u>RMA</u>;
- removing and storing a large fitted bookshelf to repair a damaged wall.

You must also consider any restricted building work requirements as noted in Appendix 3 Section d.i Substantive works in this Manual.

## vi. Professional and compliance fees

Professional and compliance fees are the costs associated with design, consent and investigation that are necessary to repair the natural hazard damage.

Examples include:

- consent fees;
- engineering fees (investigation, design and construction monitoring);<sup>140</sup>
- architect's fees;
- surveyor's fees.

For land claims, the geotechnical engineering report provides an estimate of these costs. Where this type of cost is required to assess the extent of the damage, it does not form part of the scope of work.

## vii. Additional health and safety costs

Health and safety costs are incurred by the main contractor for complying with the HSWA and other relevant legislation. You should only apply these costs in situations where:

- there are multiple contractors on a site requiring a managed site-specific health and safety plan; and
- they are not already covered by the P and G allowance.

Remediation work for a claim with minor cosmetic repairs such as plastering or painting involving one contractor should not incur health and safety costs that are



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<sup>&</sup>lt;sup>140</sup> Construction monitoring is typically completed by the design professional and provides the property owner or building consent authority with independent verification that the building work has been carried out in accordance with the specified requirements e.g. design drawings and building consent conditions.

### Page 289 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



not already covered by the P and G allowance.

### viii. Asbestos testing

Where a damaged building element is suspected of containing asbestos, you must include the cost of the necessary testing in the scope of works. The customer will arrange to have the testing carried out, but their private insurer may also choose to arrange this on their behalf. If the asbestos test is positive, a specialist licensed removal contractor will need to quote for the works. You must consider this and revise the scope of works and associated costing accordingly.

## ix. Land contamination testing

If any insured damaged land is suspected of being contaminated, e.g. the property is registered on the Ministry for the Environment's Hazardous Activities and Industries List (HAIL), you must include the cost of the necessary testing in the scope of works. The customer will arrange to have the testing carried out.

If the contamination test is positive, you should typically engage an appropriate expert (in contaminated land) to carry out a site-specific assessment and provide an appropriate remediation strategy. The expert can also provide advice on complying with the requirements of the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011. You must consider this and revise the scope of works and associated costing accordingly.

If the land contamination is caused by something other than natural hazard, e.g. prior land use contamination, the NHI Act does not cover it. However, if there is a valid claim for land damage, the NHI Act covers any appropriate costs related to the contaminated land as required to repair the natural hazard damage to the insured residential land. The NHI Act does not cover the cost of addressing the effect of the pre-existing contamination on the site itself.

#### **Reviewing quotes and invoices** b.

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In most cases, you should prepare a costed scope of works, which is an estimate of the cost of repair. This is the most common means for determining the cost of natural hazard damage. However, in some cases, you should obtain or receive:

- a quote for the work that is required; or
- an invoice for work that has already been carried out.

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Appendix 3 – Remediation strategy, standards and costing vero

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### Page 290 of 427 | NHC Assessment Manual – NHI Act



Where the customer has provided an invoice or quote for repairs, consider whether it is in sufficient detail to determine:

- whether the invoice or quote includes only the costs to repair the natural hazard damage that has occurred;
- if other repairs are included, which of the repairs were necessary to repair the natural hazard damage; and
- whether the costs for repairing the natural hazard damage are fair and reasonable.

A quote is considered to include P and G and margin, whether this is specifically itemised or not. Invoices are for actual costs only, and you should not apply any additional costs. Both quotes and invoices will include GST where required (not all contractors are registered for GST) and costs must be itemised.







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Appendix 3 - Remediation strategy, standards and costing



Page 291 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# Appendix 4. Documentation examples

## a. Overview

The purpose of this section is to provide illustrative examples of the common types of documentation used during an assessment.

NHC assessments identify diverse sets of facts. The following examples are not intended to represent every scenario you may encounter when carrying out assessments on our behalf. In reviewing these documents, you should consider how they apply to the various situations you may encounter, and the information that you will need to record during the assessment. These document examples are based on historical claims information. They are intended to illustrate our current assessment documentation standards – however, in some cases they do not fully comply. Where there is a difference between these examples and Section 13 Assessment documentation standards, Section 13 will prevail.

For detailed guidance on who completes these documents, why they are needed and any applicable standards, see Sections 7 Engaging experts, 10 Planning for a site assessment, 11 Carrying out a site assessment, 12 Post-site assessment actions and 13 Assessment documentation standards in this Manual.

Nothing in this appendix should be construed as being legal advice from us. Seek legal advice on the contents of this appendix if you require it.

The following documents are illustrated using three example properties.

Example property 1 – Units 1 and 2, 24 Example Street, Foxton:

- Building assessment report
- Building sketch
- Statement of claim checklist damage report
- Scope of works

Example property 2 – 24 Example Street, Avalon, Lower Hutt:

- Land assessment report
- Critical risk assessment
- Land sketch
- Instructions for the geotechnical engineer
- Geotechnical engineering report
- Valuer instruction
- Valuation report

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• Notification of a potentially dangerous building form







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Appendix 4 – Documentation examples

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### Page 292 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Example property 3 – 1 Main Street, Example Town:

- Structural engineer letter of engagement •
- Structural engineering report example •
- Structural engineering report floor plan and repair diagrams •

#### **Building assessment report** b.

On the following page is an example building assessment report for a duplex multiunit building (MUB1), which the assessor uses to record information in their assessment of natural hazard damage. Also included are the related building sketch (floor plan), statement of claim - damage report, and scope of works examples.



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Page 293 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### i. Building assessment report, Unit 1

Natural Hazard Event Assessment Report

|      | Natural Hazards<br>Commission<br>Toka Tũ Ake |  |
|------|--|--|
| <br> |  |  |

|                     | пі Аззеззіпені перогі |               |                           |
|---------------------|-----------------------|---------------|---------------------------|
| Loss Adjuster:      | Michele Brown         | Claim Number: | NHC/2025/234567           |
| Organisation:       | Natural Hazards       | Customer      | Michael Holmes            |
|                     | Commission Toka Tū    | Name:         |                           |
|                     | Ake                   |               |                           |
| Date of Assessment: | 25/06/2025            | Damage        | Unit 1/24 Example Street, |
| Date of Loss:       | 22/05/2025            | Address:      | Foxton                    |
| Cause of Loss:      | Earthquake            |               |                           |

**Loss Details:** Magnitude 5.2 earthquake occurring at 3.04pm, Friday 22<sup>nd</sup> May 2025. This event was located 8 km north-west of Paraparaumu at a depth of 10 km. Customer reports cracking damage to the plasterboard wall lining in bedroom 2 as well as a crack in the hallway ceiling. The plasterboard over the intertenancy (firewall) between the two units also has a crack in it.

Attendance on Site: Customer Michael Holmes and NHC Loss Adjuster Michele Brown.

**Property Details:** The property is legally described as LOT 7 DP 1039 UNIT 1 WITH A ½ SHARE IN 800M2 SECTION. This is a multi-unit, single level building with two dwellings sharing an intertenancy (fire rated) wall. The building was constructed mid 2000's, slab on grade, timber framed, weatherboard cladding with a rolled metal roof situated on a flat 800m2 section. The units themselves are both 80m<sup>2</sup>. There is a separate detached single garage for each unit situated to the rear of the building. The unit has recently been redecorated pre-loss, making colour matching internal linings easily achievable.

As the building was constructed post 2000, there are no asbestos concerns.

#### Assessment Observations:

Upon assessing the property on 25<sup>th</sup> of June 2025, the following damage was noted:

#### **Building Interior:**

Hallway – 2.4LM crack to painted plasterboard ceiling. EQ related.

Bedroom 2 - 1.2LM crack to one painted plasterboard wall. Visibly aged. Not EQ related.

**Living Room- Adjoining intertenancy with Unit 2** – 2LM structural crack through plasterboard linings with painted anaglypta wall coverings on the intertenancy wall only. EQ related.

1.0LM step cracking to intertenancy wall concrete blockwork mortar. EQ related.

The intertenancy wall is shared property by both units and accordingly, both unit owners with valid claims are have an equal responsibility to repair the wall.

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand

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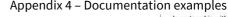
Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

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Figure 71 Building assessment report, Unit 1 (Page 1)



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### Page 294 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 





The total cost of accepted damage to Unit 1 is \$4,773.50 including P&G, Margin & GST. The customer's share of the intertenancy wall is the replacement cost multiplied by the insured person's shared ownership interest, in this case 50%.

All of the relevant documents have been uploaded to the claim to allow for a peer review.

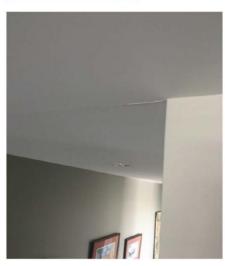
### Post Assessment Meeting with Customer:

- All concerns expressed by the customer were addressed on site.
- The customer was advised of the claim process post assessment.
- The claim excess was discussed with the customer.
- The customer appeared satisfied with my inspection and explanations.

### Assessment Recommendation:

Recommend the building claim is accepted and cash settled based upon the costed scope of works, less any applicable excess.

### Damage Photo Schedule:



Hallway - 2.4 LM painted plastered ceiling crack. EQ-related

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand

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Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

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Figure 72 Building assessment report, Unit 1 (Page 2)

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Appendix 4 – Documentation examples

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### Page 295 of 427 | NHC Assessment Manual – NHI Act

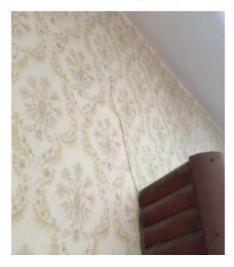
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Bedroom 2 – 1.2 LM crack to painted plastered wall. Discoloured & aged. Not EQ-related.



Living room - 2.0 LM structural tear / crack to wallpapered plasterboard intertenancy wall. EQ-related.

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

Figure 73 Building assessment report, Unit 1 (Page 3)

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### Page 296 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025







Living room – Adjoining intertenancy concrete block wall with Unit 2 - 1.0 LM step crack in wall mortar. EQ-related.

NB: Anaglypta-covered plasterboard linings of wall already removed.

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

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Figure 74 Building assessment report, Unit 1 (Page 4)

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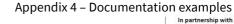
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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 297 of 427 | NHC Assessment Manual - NHI Act

Version as at **13/5/2025** 



## ii. Building sketch (floor plan), Unit 1

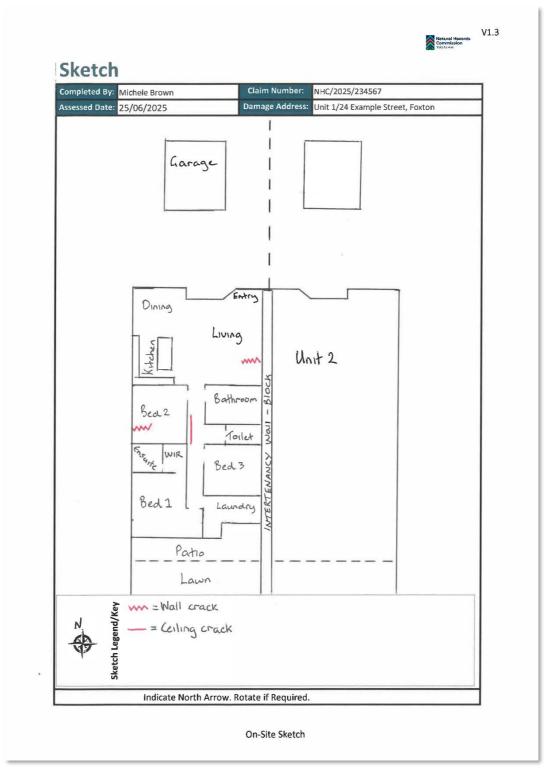


Figure 75 Building sketch (floor plan), Unit 1



Appendix 4 – Documentation examples

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Page 298 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## iii. Statement of claim checklist - damage report, Unit 1

| Ciaitt                | 1 Nun      | nber:    | NHC/202                                 | 5/234567 | Completed By:     |                   | Michele Brown                                  |
|-----------------------|------------|----------|---|----------|-------------------|-------------------|--|
| Assess                | ment       | Date:    | 25/06/20                                | 25       | Customer Name     |                   | Michael Holmes                                 |
| Dwel                  | ling N     | ame:     | Main Dw                                 | elling   | Situation of Loss | a                 | Unit 1/24 Example Street, Foxton               |
|                       | Len        | gth (m): | 12                                      |          |                   | Name:             | Hallway  |
| HC<br>overed          |            |          |   |          |                   | List Damage       |  |
| amage:                | 5          | 11       | 11/1                                    | 11/11    | 11/11/2           |                   |  |
| Yes<br>No             | lidth      | 1111     | 1111                                    | 1111/    | MANN              | 2.4lm crack in p  | ainted plasterboard ceiling - EQ               |
|                       | Width (m): |          |   | 1        |                   |                   |  |
| ud height             |            |          |   | 2.4      |                   |                   |  |
| (m):                  | <u></u>    |          |   |          |                   |                   |  |
|                       |            | 11       | AN .                                    | XXX      | XXXX              |                   |  |
| 2.4                   |            | (X)      | NYN                                     | NN       | 1/1/              |                   |  |
|                       |            |          | 0.0                                     | 2.1.1.   |                   |                   | <b>0</b>                                       |
| ic ,                  | Len        | gth (m): | 3.2                                     |          |                   | Name:             | Bedroom 2                                      |
| ivered<br>mage:       |            | -        | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |          |                   | List Damage       |  |
| Yes                   | Width (m): | 1        | 1                                       |          |                   | 1.2lm crack in pa | ainted plasterboard wall lining. Visibly aged. |
| No                    | 5          |          |   | 1        |                   | NOT EQ            |  |
|                       |            |          |   |          |                   |                   |  |
| ud height             | ω<br>      |          |   |          |                   |                   |  |
| (m):                  |            |          |   |          |                   |                   |  |
| 2.4                   |            |          |   |          | 3                 |                   |  |
| 2.7                   |            |          |   |          | 13                |                   |  |
| ic                    | Lend       | gth (m): | 6                                       |          |                   | Name:             | Living Room                                    |
| vered<br>mage:        |            |          |   |          |                   | List Damage       | 5  |
| 12:000 <b>*1</b> 010. | 5          |          |   |          |                   |                   |  |
| Yes                   | Width (m): |          |   |          |                   | 1.5lm crack in bl | ock intertenancy wall - EQ                     |
| No                    | E          |          |   |          |                   | NOTE: IT wall o   | only has plasterboard linings with painted     |
| 2. 0. 00              | (J)        |          |   |          |                   | anaglypta wall pa |  |
| id height<br>(m):     | 4          |          |   |          | 15                |                   | <b>T</b> error                                 |
|                       | 1          |          |   |          | 15                |                   |  |
| 2.4                   |            |          |   |          | Κ                 |                   |  |
|                       |            |          | erti h                                  | 111110   |                   |                   |  |
| ю                     | Leng       | th (m):  |   |          |                   | Name:             | r'   |
| overed<br>image:      |            |          |   |          |                   | List Damage       |  |
| Yes                   | Wid        |          |   |          |                   |                   |  |
| No                    | Width (m): |          |   |          |                   |                   |  |
|                       | n):        |          |   |          |                   |                   |  |
| id height             |            |          |   |          |                   |                   |  |
| (m):                  |            |          | 1                                       |          |                   |                   |  |
|                       |            |          |   |          |                   |                   |  |

Figure 76 Statement of claim checklist - damage report, Unit 1

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Appendix 4 – Documentation examples

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Page 299 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## iv. Scope of works, Unit 1

| Completed By:       | Michele Brown   | Claim Number:               | NHC/2025/234567                     |         |          |                         |                     |
|---------------------|---|-----------------------------|-------------------------------------|---------|----------|-------------------------|---------------------|
| Role:               | LOSS ADJUSTER   | Customer Name:              | Michael Holmes                      |         |          |                         |                     |
| KUIE.               |   | Address:                    | 1/24 Example Street, Foxton         |         |          |                         |                     |
| Date:               | 26/06/2025  |                             |                                     |         |          |                         |                     |
| Description         |   | This Scope of Works add     | dresses all accepted event rela     | ted dam | age      |                         |                     |
|                     |   |                             | Page 1 of 1                         |         |          |                         |                     |
| Element:            |   | Description                 |                                     | Units   | Qty      | Rate                    | Cost                |
| Building Identifier | a state of the second se |                             |                                     |         |          | Flamont Cost            | CADE 53             |
| Internal Area       | Hallway<br>Plactorhoard/Ropairs   | lasterboard cracks (Im)     |                                     | lm      | 2.4      | Element Cost<br>\$13.00 | \$495.52<br>\$31.20 |
| Ceiling<br>Ceiling  | Tradesman Required-   |                             |                                     | hr      | 2.4      | \$13.00                 | \$100.00            |
| Ceiling             | All Types:Paint only  |                             |                                     | m2      | 13.2     | \$23.60                 | \$311.52            |
| Floor               |   | Protection:Supply, install  | , remove, dispose                   | m2      | 13.2     | \$4.00                  | \$52.80             |
|                     |   |                             |                                     |         |          |                         | ,                   |
| Internal Area       | Living Room   |                             |                                     |         |          | Element Cost            | \$2,031.2           |
| Wall Lining         |   | nove, dispose, supply, ins  | tall                                | m2      | 2.88     | \$42.50                 | \$122.40            |
| Wall Lining         | Tradesman Required  | - Plasterer                 |                                     | hr      | 4        | \$50.00                 | \$200.00            |
| Wall Lining         | All Types:Paint only  |                             |                                     | m2      | 14.4     | \$21.00                 | \$302.40            |
| Trim                |   | , dispose, supply, install. |                                     | lm      | 12       | \$23.00                 | \$276.00            |
| Trim                | All Types Std:Gap fill,   |                             |                                     | lm      | 12       | \$13.00                 | \$156.00            |
| Wall Lining         |   |                             | e, dispose, supply, size, hang.     | m2      | 14.4     | \$61.00                 | \$878.40            |
| Floor               | All Types: Temporary  | Protection:Supply, install  | remove, dispose                     | m2      | 24       | \$4.00                  | \$96.00             |
| Electrical Fixtures | Fittings:All Types:Looser   | /disconnect/reconnect for a | other trades (Electrician per hour) | hr      | 4        | \$65.00                 | \$260.00            |
| Wall Framing        | 50% share of repairs t  | to intertenancy wall        |                                     | No      | 1        | \$678.00                | \$678.00            |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         | -        |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         | 5                   |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     | -   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          |                         |                     |
|                     |   |                             |                                     |         |          | Page Sub Total          | \$3,46              |
|                     |   |                             |                                     | Page    | Prelimin | aries & General         | \$27                |
|                     |   |                             |                                     |         |          | Page Margin             | \$37                |
|                     |   |                             |                                     |         |          | Page GST                | \$61                |
|                     |   |                             |                                     |         |          | TOTAL                   | \$4,73              |
|                     |   |                             |                                     |         |          |                         |                     |

Figure 77 Scope of works, Unit 1 (Page 1)

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### **Scope of Works - Building** Claim Number: NHC/2025/234567 Completed By: Michele Brown Michael Holmes Customer Name LOSS ADJUSTER Role 1/24 Example Street, Foxton Address: 26/06/2025 Date Summary Page Elements P&G Margin GST Totals Page 1 total \$3,464.72 \$277.18 \$374.19 \$617.41 \$4,733.50 Page 2 total Page 3 total Page 4 total Page 5 total Page 6 total Grand total \$3,464.72 \$277.18 \$374.19 \$617.41 \$4,733.50

Figure 78 Scope of works, Unit 1 (Page 2)





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Page 301 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### v. Building assessment report - Unit 2

|                     |               |                      | Natural Hazards<br>Commission<br>Toka Tū Ake |
|---------------------|---------------|----------------------|--|
|                     |               | nt Assessment Report |  |
| Loss Adjuster:      | Michele Brown | Claim Number:        | NHC/2025/123456                              |
| Organisation:       | NHC           | Customer Name:       | Sam Davis                                    |
| Date of Assessment: | 25/06/2025    | Damage Address:      | Unit 2/24 Example                            |
| Date of Assessment: |               |                      |  |
| Date of Loss:       | 22/05/2025    |                      | Street, Foxton                               |

**Loss Details:** Magnitude 5.2 earthquake occurring at 3.04pm, Friday 22<sup>nd</sup> May 2025. This event was located 8 km north-west of Paraparaumu at a depth of 10 km. Customer reports cracking damage to the plasterboard wall linings in the external garage, bedrooms 1 and 2 and the plasterboard over the intertenancy (firewall) between the two units also has a crack in it.

Attendance on Site: Customer Sam Davis and NHC Loss Adjuster Michele Brown.

**Property Details:** The property is legally described as LOT 7 DP 1039 UNIT 2 WITH A ½ SHARE IN 800M2 SECTION. This is a multi-unit, single level building with two residential buildings sharing an intertenancy wall. The building was constructed mid 2000's, slab on grade, timber framed, weatherboard cladding with a rolled metal roof situated on a flat 800m2 section. The units themselves are both 80m<sup>2</sup>. There is a separate detached single garage for each unit situated to the rear of the building. The unit has recently been redecorated pre-loss making colour matching internal linings easily achievable.

As the building was constructed post 2000, there are no asbestos concerns.

### **Assessment Observations:**

Upon assessing the property on 25<sup>th</sup> of June 2025, the following damage was noted:

#### **Building Exterior:**

External Garage - 2.4LM crack to one painted plasterboard wall. EQ related.

#### **Building Interior:**

Bedroom 1 - 1.0LM crack to one painted plasterboard wall. EQ related.

Bed 2 - 0.5LM crack to one painted plasterboard wall. EQ related.

Living Room- Adjoining intertenancy with Unit 1 - 1.5LM structural crack through painted plasterboard linings on intertenancy wall. EQ related. Wall linings for the affected wall is painted plasterboard decorated as a feature wall.

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand

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Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

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Figure 79 Building assessment report, Unit 2 (Page 1)



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Page 302 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



Natural Hazards Commission Toka Tū Ake

1.0LM step cracking to intertenancy wall concrete blockwork mortar. EQ related.

The intertenancy wall is shared property by both units and accordingly, both unit owners with valid claims have an equal responsibility to repair the wall.

The total cost of accepted damage to Unit 2 with the 50% share for the intertenancy wall included, is \$4,643.74 including P&G, Margin & GST. The share of the intertenancy wall is the replacement cost multiplied by the insured person's shared insurable interest, in this case 50%.

All of the relevant documents have been uploaded to the claim to allow for a peer review.

### Post Assessment Meeting with Customer:

- All concerns expressed by the customer were addressed on site.
- The customer was advised of the claim process post assessment.
- The claim excess was discussed with the customer.
- The Customer appeared satisfied with my inspection and explanations.

### Assessment Recommendation:

Recommend building claim is accepted and cash settled based upon the costed scope of works, less any applicable excess.

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Figure 80 Building assessment report, Unit 2 (Page 2)



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Page 303 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Damage Photo Schedule:



External garage – 2.4 LM crack to painted plastered wall. EQ-related.

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Figure 81 Building assessment report, Unit 2 (Page 3)

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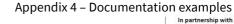
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### Page 304 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025







Bedroom 1 – 1.0 LM crack to painted plastered wall. EQ-related.

NB: 3.0 M high stud.

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Figure 82 Building assessment report, Unit 2 (Page 4)

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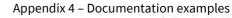
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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 305 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 







Bedroom 2 – 0.5 LM crack to painted plasterboard wall. EQ-related.

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Figure 83 Building assessment report, Unit 2 (Page 5)

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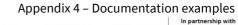
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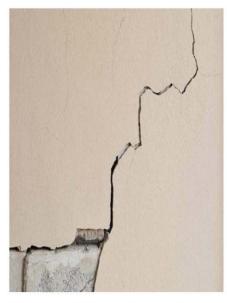


### Page 306 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025







Living room – 1.5 LM structural crack in painted plasterboard intertenancy wall. EQ-related.



Intertenancy wall between Unit 1 & 2 – 1.0 LM structural crack through concrete block mortar. EQ-related.

NB: Plasterboard lining has been removed to expose wall.

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Figure 84 Building assessment report, Unit 2 (Page 6)

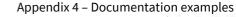
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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 307 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



## vi. Building sketch (floor plan), Unit 2

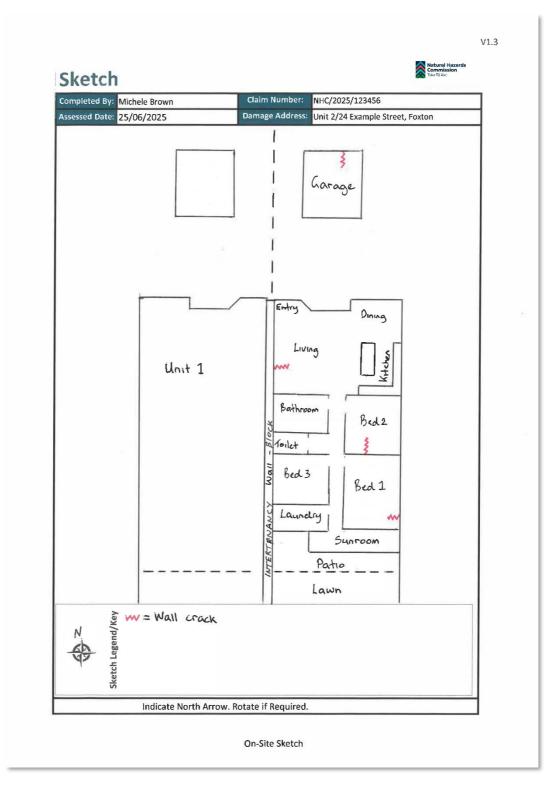


Figure 85 Building sketch (floor plan), Unit 2

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Appendix 4 – Documentation examples

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Page 308 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



## vii. Statement of claim checklist - damage report, Unit 2

| Clain               | n Numb     | er:    | NHC/2  | 025/123456 | -    | -     | -    | d By:     | ecklist - Da     |      | Michele Brown                            |
|---------------------|------------|--------|--------|------------|------|-------|------|-----------|------------------|------|--|
| Asses               | sment [    | Date:  | 25/06  |            | -    | 14    | -    | Name:     |                  |      | Sam Davis                                |
| Dwel                | ling Na    | me:    | Main ( | Owelling   | Sit  | uatio | on d | of Loss:  |                  | U    | Jnit 2/24 Example Street, Foxton         |
|                     | Lengt      | h (m): | 4.8    |            |      |       |      |           | Name:            |      | Bed One                                  |
| HC<br>overed        |            |        |        |            |      |       | _    |           | List Damage      |      |  |
| amage:              | 5          |        |        |            |      |       |      | 2         | 1 lm crack to or | ne p | ainted plasterboard wall - EQ            |
| Yes<br>No           | đth        | _      |        |            | -    | -     |      |           |                  |      |  |
| NO                  | Width (m): | -      |        |            | -    | -     | 1    |           |                  |      |  |
| <b></b>             | ω          | -      | _      |            | -    | -     | -    |           |                  |      |  |
| Stud height<br>(m): | ╞╧┟        | -      |        |            | ++-  |       | -    | -         |                  |      |  |
|                     | 1          |        |        |            |      | +     | -    | 1         |                  |      |  |
| 2.4                 |            |        | 1      |            |      | 1     |      |           |                  |      |  |
|                     | μľ         | -      |        |            |      |       | -    |           |                  |      |  |
| нс                  | Lengt      | h (m): | 3.2    |            |      |       |      |           | Name:            |      | Bed 2                                    |
| overed<br>amage:    | -          |        | +      |            |      | +     | _    |           | List Damage      |      | winted plasterboard wall FO              |
| Yes                 | Width (m): | -      | _      |            |      | -     | _    |           | .5mi crack to o  | me p | painted plasterboard wall - EQ           |
| No                  |            |        |        |            |      | -     | -    |           |                  |      |  |
|                     |            |        | -      |            |      |       | -    | $\square$ |                  |      |  |
| atud height         | ι <u>ω</u> |        |        |            |      |       |      | w         |                  |      |  |
| (m):                | 1 - F      | 1.1    |        |            |      |       | ·5   |           |                  |      |  |
| 2.4                 |            |        |        |            |      |       | -    |           |                  |      |  |
| 2.4                 |            |        | 1      |            |      |       |      |           |                  |      |  |
|                     | Lengt      | h (m). | 6      |            |      |       | _    |           | Name:            |      | Living Room                              |
| нс                  | Γ Γ        | n (m). | •      |            |      |       |      |           | List Damage      |      |  |
| overed<br>amage:    | 5          |        |        |            |      |       |      |           |                  | bloc | k IT wall with painted plasterboard wall |
| Yes                 | Width (m): |        |        |            |      |       |      |           | linings - EQ     |      |  |
| No                  | Î          |        |        |            |      |       |      |           |                  |      |  |
|                     | Э.         |        |        |            |      |       |      |           |                  |      |  |
| tud height<br>(m):  | 4          |        |        |            |      |       |      |           |                  |      |  |
|                     |            |        |        |            | 3    | 1.5   |      |           |                  |      |  |
| 2.4                 |            |        | _      |            | 2    |       | _    |           |                  |      |  |
|                     | t          | цц     | ritt   | 111/111    | 1111 | 11    | 4    | Ξ         |                  |      |  |
|                     | Lengt      | h (m): | 6      |            |      |       |      |           | Name:            |      | External Garage                          |
| HC<br>overed        |            |        |        |            | 1    | -     |      |           | List Damage      |      |  |
| amage:              | Ş.         | _      |        |            |      | 3     |      |           | 2.4lm crack to   | pain | ated plasterboard wall - EQ              |
| Yes<br>No           | ₽<br>₽     | _      |        |            |      | 52    | •4   |           |                  |      |  |
|                     | idth (m):  |        |        |            |      |       | -    |           |                  |      |  |
| itud height         | 0          |        | _      |            |      |       |      |           |                  |      |  |
| (m):                |            |        | -      |            |      |       |      |           |                  |      |  |
|                     |            |        |        |            |      |       |      |           |                  |      |  |
| 2.4                 |            |        |        |            |      |       | -    |           |                  |      |  |

Figure 86 Statement of claim checklist - damage report, Unit 2

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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 309 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



## viii. Scope of works, Unit 2

| Completed By:              | Works -                             | Claim Number:               | NHC/2025/123456                       |          |          |                  |          |
|----------------------------|-------------------------------------|-----------------------------|---------------------------------------|----------|----------|------------------|----------|
| Completed by:              | Withele Brown                       | Customer Name:              | Sam Davis                             |          |          |                  |          |
| Role:                      | LOSS ADJUSTER                       |                             | 2/24 Example Street                   |          |          |                  |          |
| Date:                      | 26/06/2025                          | Address:                    | Foxton                                |          |          |                  |          |
| Description                |                                     | This Scope of Works ad      | dresses all accepted event rela       | ited dam | nage     |                  |          |
|                            |                                     |                             | Page 1 of 1                           | _        | _        |                  |          |
| Element:                   |                                     | Description                 |                                       | Units    | Qty      | Rate             | Cost     |
| <b>Building Identifier</b> | UNIT 2                              |                             |                                       |          |          |                  |          |
| Internal Area              | Bedroom 1                           |                             |                                       |          |          | Element Cost     | \$381.7  |
| Wall Lining                | Plasterboard:Repair p               | lasterboard cracks.         |                                       | Im       | 1        | \$11.00          | \$11.0   |
| Wall Lining                | Tradesman Required -                | Plasterer                   |                                       | hr       | 2        | \$50.00          | \$100.0  |
| Wall Lining                | All Types:Paint only                |                             |                                       | m2       | 11.52    | \$21.00          | \$241.9  |
| Floor                      |                                     | Protection: Supply, instal  | l, remove, dispose                    | m2       | 7.2      | \$4.00           | \$28.8   |
|                            |                                     |                             |                                       |          |          |                  | A.12.0.1 |
| Internal Area              | Bedroom 2                           |                             |                                       |          |          | Element Cost     | \$292.5  |
| Wall Lining                | Plasterboard:Repair p               | lasterboard cracks.         |                                       | Im       | 0.5      | \$11.00          | \$5.50   |
| Wall Lining                | Tradesman Required -                |                             |                                       | hr       | 2        | \$50.00          | \$100.0  |
| Wall Lining                | All Types:Paint only                |                             |                                       | m2       | 7.4      | \$21.00          | \$155.4  |
| Floor                      |                                     | Protection:Supply, install  | , remove, dispose                     | m2       | 8        | \$4.00           | \$32.0   |
|                            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                             | · · · · · · · · · · · · · · · · · · · |          | _        |                  | ,        |
| Internal Area              | Lounge                              |                             |                                       | 1        |          | Element Cost     | \$1,786. |
| Wall Lining                |                                     | ove, dispose, supply, ins   | tall                                  | m2       | 2.88     | \$42.50          | \$122.4  |
| Wall Lining                | Tradesman Required -                |                             |                                       | hr       | 4        | \$50.00          | \$200.0  |
| Wall Lining                | All Types:Paint only                | - Houter en                 |                                       | hr       | 14.4     | \$65.00          | \$936.0  |
| Trim                       |                                     | dispose, supply, install.   |                                       | Im       | 12       | \$23.00          | \$276.0  |
| Trim                       | All Types Std:Gap fill,             |                             |                                       | Im       | 12       | \$13.00          | \$156.0  |
| Floor                      |                                     | Protection:Supply, install  | remove dispose                        | m2       | 24       | \$4.00           | \$96.0   |
|                            | / in typesticitipolary i            | roccedurino apprij i no can | ,remote, and pose                     |          |          | ¢ noo            | 45010    |
| Wall Framing               | 50% share of repairs t              | o intertenancy wall         |                                       | no       | 1        | \$678.00         | \$678.0  |
| Electrical Fixtures        | Fittings:All Types:Loosen,          | /disconnect/reconnect for   | other trades (Electrician per hour)   | hr       | 4        | \$65.00          | \$260.0  |
| Building Type              | External Garage                     |                             |                                       |          |          | Element Cost     |          |
| Wall Lining                | Plasterboard: Repair p              | lasterboard cracks.         |                                       | Im       | 2.4      | \$11.00          | \$26.4   |
| Wall Lining                | Tradesman Required -                |                             |                                       | hr       | 2        | \$50.00          | \$100.0  |
| Wall Lining                | All Types:Paint only                |                             |                                       | m2       | 14.4     | \$21.00          | \$302.4  |
| Floor                      |                                     | rotection:Supply, install   | , remove, dispose                     | m2       | 9        | \$4.00           | \$36.0   |
|                            |                                     |                             |                                       |          |          |                  |          |
|                            |                                     |                             |                                       |          |          |                  |          |
|                            |                                     |                             |                                       |          |          | Page Sub Total   | \$3,8    |
|                            |                                     |                             |                                       | Page     | Prelimir | naries & General | \$3      |
|                            |                                     |                             |                                       |          |          | Page Margin      | \$4      |
|                            |                                     |                             |                                       |          |          | Page GST         | \$6      |
|                            |                                     |                             |                                       |          |          |                  |          |

Figure 87 Scope of works, Unit 2 (Page 1)

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Version as at 13/5/2025



## **Scope of Works - Building**

| Completed Du  | Michele Brown | Claim Number:  | NHC/2025/123456     |
|---------------|---------------|----------------|---------------------|
| Completed By: | WICHER BLOWIT | Customer Name: | Sam Davis           |
| Role:         | LOSS ADJUSTER | customer Name. |                     |
| NOIE.         | LOSS ADJOSTER |                | 2/24 Example Street |
| Date:         | 26/06/2025    | Address:       | Foxton              |

Summary Page

|              | Elements   | P&G      | Margin   | GST      | Totals    |
|--------------|------------|----------|----------|----------|-----------|
| Page 1 total | \$3,863.82 | \$309.11 | \$417.29 | \$688.53 | \$5,278.7 |
| Page 2 total |            |          |          |          |           |
| Page 3 total |            |          |          |          |           |
| Page 4 total |            |          |          |          |           |
| Page 5 total |            |          |          |          |           |
| Page 6 total |            |          |          |          |           |
| Grand total  | \$3,863.82 | \$309.11 | \$417.29 | \$688.53 | \$5,278.7 |



Figure 88 Scope of works, Unit 2 (Page 2)

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Appendix 4 – Documentation examples

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Page 311 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025

Natural Hazards Commission



## c. Land assessment report

The following is an example land assessment report, which the assessor uses to record information in their assessment of natural hazard damage.

|                            |               |                    | Toka Tũ Ake                                     |
|----------------------------|---------------|--------------------|---|
|                            | Natural Hazar | rd Event Assess    | ment Report                                     |
| Assessor/Loss<br>Adiuster: | Michele Brown | Claim<br>Number:   | NHC/2024/123456                                 |
| Organisation:              | NHC           | Customer<br>Name:  | John Smith                                      |
| Date of<br>Assessment:     | 26/11/2024    | Damage<br>Address: | 24 Example Street, Stokes Valley,<br>Lower Hutt |
| Date of Loss:              | 10/10/2024    |                    |   |
| Cause of Loss:             | Landslide     |                    |   |

### Loss Details:

A landslide has moved part of a retaining wall following heavy rain on the 10/10/2024.

#### Property Description:

The property is legally described as LOT 1 DP 12345. It is a single storied,  $90m^2$  timber framed building on a concrete ring foundation with weatherboard cladding and concrete tiled roof situated on a sloping  $538m^2$  site, constructed in the 1960's.<sup>1</sup>

### Attendance on Site:

Michele Brown from NHC

Owner – John Smith

#### Assessment Observations:

Land: A landslide has occurred to insured land immediately behind a timber post/timber lagging retaining wall (RTW) that runs along the rear of the dwelling (southern elevation) following a heavy rain event which has caused the RTW to partially rotate along a 7m section of the wall. The headscarp is approx. 6m in length with the area of insured land evacuated measuring approx. 10-12m<sup>2</sup>. There is no inundation from this event.

**Land Structures:** Other than the damaged RTW, there are no other land structures on the land holding. The damaged RTW is approx. 20m in length with an average retained height of 1.2m. The RTW is located on the southern elevation and runs east to west, parallel with the rear of the dwelling. The entire retaining wall is within the land area insured under the NHI Act, with an estimated insured face area of 24m<sup>2</sup>.

Building/services: There is no visible nor reported damage to either building or services.

<sup>1</sup> Property information sourced from Council records via homes.co.nz

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

Figure 89 Land assessment report (Page 1)

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Appendix 4 – Documentation examples

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Page 312 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Damage to Insured Appurtenant Structures: There is no visible nor reported damage to any appurtenant structures.

### Post Assessment Meeting with Customer:

- All concerns expressed by the customer were addressed on site.
- The customer was advised of the next steps in the claim process post assessment.
- The claim exposure excess was discussed with the customer.
- The basis for settling land claims under section 39 of the NHI Act was explained to the customer, (land claim entitlement) who advised he understood the available compensation.

### Assessment Recommendation:

The landslide has occurred, affecting the insured land area within 8 m of a residential building and an insured retaining wall under the NHI Act. Recommend a geotechnical engineer is engaged to advise on the following:

- Type and extent of damage including any imminent damage
- Proximate cause of the damage
- Provide a conceptual remedial solution that reinstates both the damaged land and land structure and removes any imminent damage (if any)

### Damage Photo Schedule:



**RTW** looking west

Natural Hazards Commission Toka Tū Ake Level 11, Majestic Centre 100 Willis Street Wellington 6011, New Zealand Corporate Mail: PO Box 790, Wellington 6140 Claims Mail: PO Box 311, Wellington 6140 Telephone: (04) 978-6400 Fax: (04) 978-6431 www.naturalhazards.govt.nz

Figure 90 Land assessment report (Page 2)

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Appendix 4 – Documentation examples

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### Page 313 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025





Figure 91 Land assessment report (Page 3)





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Appendix 4 – Documentation examples

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Page 314 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# d. Critical risk assessment

The following is an example of a critical risk assessment form used before, during and after a site assessment. Its purpose is to record identified risks and steps to manage those risks.

|   | Critica   | l (Healt  | h & Safety   | ) Risk As  | sessment For  | rm  |    |
|---|---|---|--|--|---|---|----|
| Activity Type   | Site Visit  |   | Working Offsi  | te C   | ustomer Contact   | Other   |    |
| Description   | Site visit with cus   | tomer to co   | omplete a shal   | low geotech  | nical investigation   |   |    |
| Address   | 24 Example Stree  | et.   |  |  |   |   |    |
| Suburb  | Avalon, Lower Hut   |   |  |  |   |   |    |
| Est Time On   | 1.00pm  |   | E  | st Time Off  | 3.15pm  |   |    |
| Date  | 18 August 2024  |   |  |  | and a state of a state of the   |   |    |
|   |   | All M   | lorkers (particip  | ating or in atter  | dance)  |   |    |
| 1. Michelle   | Brown (Assessor)  |   |  | 6.   |   |   |    |
| 2. Adam Br  | rown (Geotechnical  | Engineer)   |  | 7.   |   |   |    |
| 3.  |   |   |  | 8.   |   |   |    |
| 4.  |   |   |  | 141  |   |   |    |
|   |   |   |  | 9.   |   |   |    |
| 5.  |   |   |  | 9.<br>10   |   |   |    |
| Which type of   | f worker(s) are atter   | 391   | Of   | 1000   | Front Facin   | g Field Facin   | ng |
| Which type of<br>Lead On-Site:  | Michelle  | Brown   |  | 10<br>fice Facing  |   | g Field Faci  | וg |
| Which type of<br>Lead On-Site:  | 2282  | Brown   |  | 10<br>fice Facing<br>ol(s) for the                                       |   | g Field Faci  | ng |
| Which type of<br>Lead On-Site:<br>i <b>tep 1:</b> Idei                                  | Michelle<br>ntify the Critical Ri   | Brown   | Critical Contr<br>Driving /                                  | 10<br>fice Facing<br>ol(s) for the<br>Vehicles                           |   | g Field Faci  | ng |
| Which type of<br>Lead On-Site:<br>i <b>tep 1:</b> Idei                                  | Michelle<br>ntify the Critical Ri<br>Off Road Driving                             | Brown<br>isk(s) and   | Critical Contr<br>Driving /                                  | 10<br>fice Facing<br>ol(s) for the<br>Vehicles                           | Work Activity   | -   | ng |
| Which type of<br>Lead On-Site:<br><b>tep 1:</b> Ider                                    | Michelle<br>ntify the Critical Ri<br>Off Road Driving<br>use list)                | Brown<br>isk(s) and<br>Dotorw                               | Critical Contr<br>Driving /<br>ay Driving                    | 10<br>frice Facing<br>ol(s) for the<br>Vehicles                          | Work Activity<br>urban (City only)  | -   | ng |
| Which type of<br>Lead On-Site:<br>itep 1: Iden<br>N/A                                   | Michelle<br>ntify the Critical Ri<br>Off Road Driving<br>use list)<br>ols summary | Brown<br>isk(s) and<br>Otorw<br>Current ful                 | Critical Contr<br>Driving /<br>ay Driving                    | 10<br>fice Facing<br>ol(s) for the<br>Vehicles<br>U Sub<br>by driver, wo | Work Activity<br>urban ( <i>City only</i> )<br>k vehicle with GPS               | Open Road   | ng |
| Which type of<br>Lead On-Site:<br>Itep 1: Iden<br>N/A<br>Other (plea<br>Critical Contro | Michelle<br>ntify the Critical Ri<br>Off Road Driving<br>use list)<br>ols summary | Brown<br>isk(s) and<br>Motorw<br>Current ful<br>Violence or | Critical Contro<br>Driving /<br>ay Driving<br>Hicense held b | 10<br>fice Facing<br>ol(s) for the<br>Vehicles<br>U Sub<br>by driver, wo | Work Activity<br>urban ( <i>City only</i> )<br>k vehicle with GPS<br>Behaviours | Open Road S to be taken to site ordination with Insurer | ng |

Version 01 | Owner: HSSW Team | Next update: September 2025

Figure 92 Critical risk assessment (Page 1)

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Critical Controls summary

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|             |   | Electrocution / Elect                               |                  |               |                   |
|-------------|---|---|------------------|---------------|-------------------|
| □ N/A       | Underground Dig   | Overhead Power Line                                 | Unsafe Ho        | ouse wiring   | C Other           |
| Critical Co | 25  | ope metal detector to be use                        | ed to detect und | lerground ser | vices             |
|             |   | Restricted Spa                                      | ices             |               |                   |
| 🗌 N/A       | Sub-Floor   | Ceil  | ing Space        |               | Other Crawl Space |
| Other (     | Please list)  |   |                  |               |                   |
| Critical Co | ntrols summary  |   |                  |               |                   |
|             |   | - <b>142</b> -11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- |                  |               |                   |
|             |   | Working at Height (                                 | 1 202            |               |                   |
| Other (     | Ladders   | MEWP/EWP  | Roof             | Unecks        | Scaffolding       |
| Critical Co | ntrols summary  |   |                  |               |                   |
|             | na olo sullina y  |   |                  |               |                   |
|             |   | Lone Worker / Safety                                | / Functions      |               |                   |
| □ N/A       | Keeping in Touch Plan   | Get Home Safe App                                   | CRA Appro        | wed           | Others attending  |
| 🗌 Other (F  | lease list)   |   |                  |               |                   |
| Critical Co | ntrols summary  |   |                  |               |                   |
| Technolog   | y Available to Assist   |   |                  |               |                   |
| Cavity C    | ritter (Under floor)  | Drones (height)                                     |                  | Garmin        | nReach            |
| Other/deta  | ils (please list):  |   |                  |               |                   |
| Other pote  | ential hazards present for th   | is work activity                                    |                  |               |                   |
| Dogs / A    | nimals  | Unstable Land / Dama                                | aged Land        | Rockfall      |                   |
| Abuse /     | Conflict / Multiple Parties   | Psychological / Stress                              | 5                | Damage        | d Property        |
| 🗌 Lone W    | orking / Deploying Alone  | Remote Working                                      |                  | No Cell       | Coverage          |
| □ Off-Roa   | d / Rural   | Boat Access only                                    |                  | Helicopt      | er                |
| the custom  | ds (please list): Customer own<br>er and while not aggressive, th<br>ne into contact with them. |   |                  |               |                   |

Figure 93 Critical risk assessment (Page 2)



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Appendix 4 – Documentation examples

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Page **316** of **427** | **NHC Assessment Manual – NHI Act** 

Version as at 13/5/2025



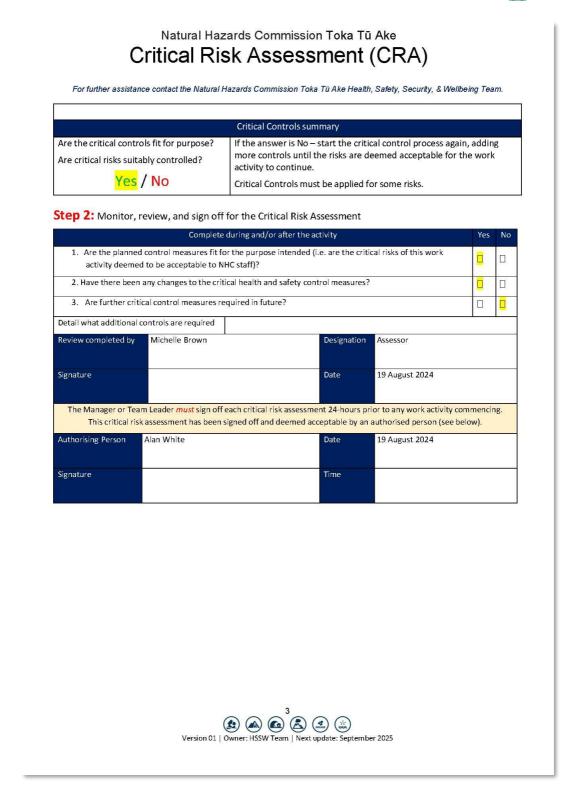
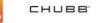


Figure 94 Critical risk assessment (Page 3)

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Appendix 4 – Documentation examples

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Page 317 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## e. Land sketch

The following is an example of a land sketch completed during a site assessment, which provides visual guidance to the extent of NHCover and the location of damage.

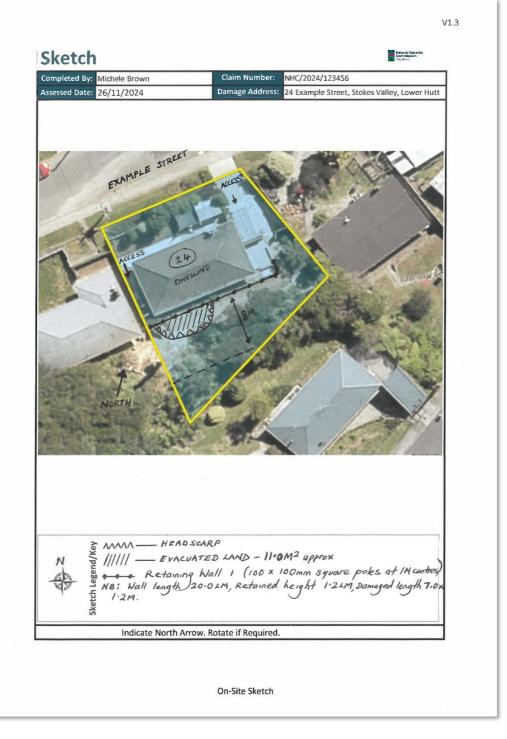


Figure 95 Land sketch

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Page 318 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



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# f. Instructions for the geotechnical engineer

The following is an example instruction typically prepared by the assessor, which sets out their requirements to the engineer for assessing and reporting natural hazard damage and providing a suitable conceptual remediation strategy. The engineer uses this to provide a service fee quote for the assessor's approval.

| Geotechnical Services – Claims (Standard) |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Part A – Client's request fo              | r proposal   |  | Client to complete   |  |  |  |
| Consultant's name and<br>agreement number | ABC Geotechnical Engineering<br>Limited  | Urgency  | □Urgent ⊠Not urgent<br>If urgent, please contact requestor<br>immediately to discuss     |  |  |  |
| Part A submission date                    | 30/11/2024   | Requester's name                                 | Michele Brown  |  |  |  |
| Requester's phone                         | 0274 555 555   | Requester's email                                | mbrown@naturalhazards.govt.nz  |  |  |  |
| NHC cost centre                           |  | Claim number                                     | NHC/2024/123456  |  |  |  |
| Customer name                             | John Smith   | Address of damage                                | 24 Example Street, Stokes Valley,<br>Avalon, Lower Hutt                                  |  |  |  |
| CMS specialist service<br>request number  | 123456   | Part A version number                            | V01  |  |  |  |
| rief                                      |  | p.   |  |  |  |  |
| Event type                                | 🗆 EQ. 🛛 🖾 Landslide 🗆  | Storm/flood 🛛 Hydrotherm                         | nal 🗆 Volcanic   |  |  |  |
| Request type                              | 🗆 Desktop 🛛 Site visit   | Peer review     Challeng                         | ge   |  |  |  |
|   | Retaining walls ⊠Y □N  | Sr   | pring 🗆 Y 🗵 N  |  |  |  |
|   | Evacuated land ⊠Y □N   | Po   | otential dwelling damage 🛛 Y 🖾 N   |  |  |  |
| Known issues                              | Inundated land 🗆 Y 🖾 N   | Po   | otential services damage $\Box$ Y $\boxtimes$ N  |  |  |  |
|   | Other I Y IN If yes, please provi  | de details:                                      |  |  |  |  |
|   |  |  | of the dwelling has suffered partial rotation<br>ss. No building/services damage. Please |  |  |  |
| Additional information/                   | provide standard report to:  | ately benning the KTW. Easy acces                | ss. No building/services damage. Please  |  |  |  |
| instructions for<br>consultant            | identify the whether the loss is the direct result of the natural hazard that has been claimed for |  |  |  |  |  |
|   | <ul> <li>quantify land damage inclu</li> <li>provide conceptual remed</li> </ul>                   | uding imminent damage within N<br>lial solution. | latural Hazards Cover  |  |  |  |
| un nontin a da sum onto                   | provide apriceptation entran   |  |  |  |  |  |
| upporting documents                       |  |  |  |  |  |  |
| Assessment re                             | port 🛛 Land sketch 🖾 F   | Photos   |  |  |  |  |
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
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Figure 96 Instructions for the geotechnical engineer

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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 319 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# g. Geotechnical engineering report

The following is an example geotechnical engineering report, which meets the assessor's requirements as set out in their original instructions.

|                     | Job No: 000760.1234<br>18 December 2024<br>Iazards Commission Toka Tū Ake (NHC)   |
|---------------------|---|
| Via email           |   |
|                     | Claim for Natural Hazard (Landslide) Damage   |
|                     | John Smith, 24 Example Street, Avalon, Lower Hutt<br>NHC/2024/123456  |
| 1                   | Introduction  |
| Decembe<br>undertak | sted, ABC Geotechnical Engineering Limited inspected the subject property on 11<br>er 2024 to assess the claim for natural hazard damage. In particular the visit was<br>en to determine whether physical loss or damage to property is imminent as a direct<br>the natural hazard that has occurred. |
| This clain          | relates to a rain event that occurred on 10 October 2024.   |
| 2                   | Site description  |
| Hutt. The           | erty is located on a slightly sloping, north-facing site on Example Street in Avalon, Lower dwelling is one storey and located on a cut platform in the middle of the site. A timber wall (RTW1) is located 1.4 m away from the dwelling and supports a level lawn area on the side.                  |
|                     | le has occurred upslope of the southern side of the dwelling as a result of heavy rainfall.<br>Jide has resulted in the evacuation of insured land.   |
| The lands           | lide was likely triggered by high water pressure behind RTW1 due to heavy rainfall.   |
|                     | shed geology of the area <sup>1</sup> indicates that the site is underlain by sandstone and mudstone of<br>a Terrane. Clayey silty fill was observed on the landslide headscarp and behind RTW1.  |
| photogra            | ion of the landslide and the extent of the damage are shown on the attached sketches and<br>phs. The conclusions and recommendations in this report are based on a visual assessment<br>e only. It must be appreciated that subsurface conditions may vary from those inferred in<br>rt.              |
| Property            | boundaries are based on LINZ information overlain on aerial imagery.  |
|                     |   |
|                     | lohnston, M.R. (compilers) 2000: Geology of the Wellington area. Institute of Geological & Nuclear Sciences 1:250,000<br>ap 10. 1 sheet + 64 p. Lower Hutt, New Zealand. Institute of Geological & Nuclear Sciences Limited   |
|                     |   |
|                     | ical Engineering Limited  |

Figure 97 Geotechnical engineering report (Page 1)

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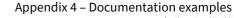
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### Page 320 of 427 | NHC Assessment Manual – NHI Act

3

Version as at 13/5/2025



2

#### Property damage

The damage to the property consists of a 6 m wide landslide adjacent to the southern side of the dwelling which has resulted in:

- Evacuation of insured land; and
- Rotation of 7 m length of RTW1.

#### 4 NHC considerations

We consider the damage bullet-pointed above to be natural hazard (landslide) damage as defined by the Natural Hazards Insurance Act 2023 (NHI Act).

#### 5 Imminent damage

We consider further damage is more likely than not to occur within the following 12 months (under normal annual rainfall conditions) and as a direct result of the landslide that has occurred due to regression of the landslide headscarp, resulting in:

- evacuation of additional insured land; and
- further rotation of 1 m length of RTW1

The dwelling has not been damaged and we do not consider there to be any imminent damage risk as a direct result of the natural hazard (landslide) that has occurred.

There may be a risk of landslides on adjacent slopes due to future large storm or earthquake events. However, this risk is not considered imminent within the next 12 months as a direct result of the landslide that has occurred. We recommend that the owners consider engaging a geotechnical specialist to assess the stability risk of the adjacent slopes and implement remedial work if required.

#### 6 Conceptual remediation strategy

The information in the following section is provided solely to NHC for claim settlement purposes. The conceptual works are for NHC cost estimation only, to enable NHC to assess the likely costs of repairing the damaged insured property and/or, the cost of preventing damage to insured property that is considered imminent as a direct result of the natural hazard that has occurred. The conceptual scope of works, and drawings, are NOT FOR CONSTRUCTION.

There may be an alternative remediation strategy which is more cost effective or appropriate for the customer and wider property (beyond NHI Act-insured land). It may be possible to implement an alternative solution.

A conceptual remediation strategy that reinstates the damaged land to a similar condition and/or removes imminent damage risk to insured property would comprise the following:

- Remove debris and affected retaining wall, working from the top down and dispose off-site.
- Prepare the working area.
- Construct a timber pole retaining wall having the following
  - dimension/characteristics/properties:
    - $_{\odot}~$  9 m long wall tied into existing wall
    - 1.2 m maximum retained height
    - o Minimum pole embedment 1.8 m, 3 m total pole length
    - 300 mm H4 treated SED timber poles at 1 m centres
    - 75 mm H4 treated timber lagging
    - o Drainage metal wrapped in A29 Bidim geotextile.

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16 December 2024

Figure 98 Geotechnical engineering report (Page 2)





Appendix 4 – Documentation examples



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### Page 321 of 427 | NHC Assessment Manual – NHI Act

### Version as at 13/5/2025



3

 110 mm diameter Novaflo wrapped in filter fabric connected to existing stormwater system.

Handrail to Building Code requirements (required if someone could fall more than 1 m).

Drawings of this conceptual remediation strategy are shown in Sketches 3 and 4. Additional

information for cost estimation:

| Construction Issues            | Easy        | Moderate | Hard | N/A |
|--------------------------------|-------------|----------|------|-----|
| Construction access            | $\boxtimes$ |          |      |     |
| Earthworks required            |             |          |      |     |
| Constructability/Reinstatement |             |          |      |     |

All remediation strategies should consider safety in design. Any construction works should be undertaken in a safe and appropriate manner, including the allowance for all necessary protection and temporary stabilisation works as required to ensure the safety of all persons working or present on-site during construction.

We estimate the cost (excluding GST) to design and consent the proposed solution will be as follows:

| Geotechnical engineering investigation, design and drawings | \$4,500    |
|---|------------|
| Survey  | Nil        |
| Building/Resource consents                                  | Nil        |
| Construction observations and Producer Statements           | \$1,500    |
| Project Management  | \$500      |
| TOTAL (Excluding GST)                                       | \$ 6,500 * |

\*The construction cost estimate for the proposed solution will be provided by an NHC cost estimator.

ABC Geotechnical Engineering Limited

16 December 2024

Figure 99 Geotechnical engineering report (Page 3)

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Appendix 4 – Documentation examples

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Page 322 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



4

| s this natural hazard damage?  | Yes (Landslide)           |
|--|---------------------------|
| Land within 8 m of dwelling or appurtenant structures  |                           |
| Area of insured land damaged:  |                           |
| Evacuated:   | 11 m <sup>2</sup>         |
| nundated:  | Nil                       |
| Area of insured land at risk of imminent damage  |                           |
| Evacuation:  | 4 m <sup>2</sup>          |
| New inundation:  | Nil                       |
| Re-inundation:   | Nil                       |
| Main access way within 60 m of dwelling  | N/A                       |
| Retaining walls supporting or protecting insured buildings and/or land located   | 1                         |
| within 60 m of dwelling (or an appurtenant structure)  |                           |
| Timber pole retaining wall – 100 x 100 mm square poles at 1 m centres:   |                           |
| Whole wall length:   | 20 m                      |
| Retained height:   | 1.2 m                     |
| Damaged: (insured face area):  | 8.5 m <sup>2</sup>        |
| Imminent damage: (insured face area):  | 1.5 m <sup>2</sup>        |
| Insured wall: (face area):   | 24.0 m <sup>2</sup>       |
| Total wall: (face area):   | 24.0 m <sup>2</sup>       |
| Dwelling and appurtenant structure(s)  |                           |
| Has the dwelling or appurtenant structure been damaged as a result of the<br>natural hazard?                           | No                        |
| Is damage to the dwelling (or appurtenant structure) imminent as the direct<br>result of a natural hazard?             | No                        |
| Insured service infrastructure   | N/A                       |
| Bridges or culverts situated within insured land areas   | N/A                       |
| Conceptual remedial works:   |                           |
| Remediate damage to remove imminent damage risk to insured land.   | \$6,500 +<br>construction |
| Remove landslide debris and affected retaining wall and dispose off-site.  | costs*<br>(excluding GST) |
| Construct a cantilevered timber pole retaining wall tied into existing wall.<br>o be assessed by an NHC cost estimator | (excluding GST)           |

ABC Geotechnical Engineering Limited

16 December 2024

Figure 100 Geotechnical engineering report (Page 4)

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Appendix 4 – Documentation examples

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Page 323 of 427 | NHC Assessment Manual – NHI Act

8

Version as at 13/5/2025



5

### Applicability

This report was produced for NHC for the sole purpose of assisting NHC to determine whether it has any liabilities under the Natural Hazards Insurance Act 2023 and it may not be relied upon in other contexts or for any other purpose, or by any person other than NHC, without our prior written agreement.

Yours sincerely For ABC Geotechnical Engineering Limited

Alan Green Geotechnical Engineer

Reviewed by and authorised for ABC Geotechnical Engineering Limited by Kate Gray (Project Director)

Attached: Photographs (1 – 3) Annotated aerial photograph Sketches (1 – 4)

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16 December 2024

Figure 101 Geotechnical engineering report (Page 5)

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Page 324 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



6 Photographs 1 to 3 – 24 Example Street, Avalon, Lower Hutt Dwelling Landslide headscarp RTW1 Photograph 1: View of landslide on southern side of property (taken 11 December 2024 facing west). Photograph 2: View of rotation of RTW1 (taken 11 December 2024 facing east). ABC Geotechnical Engineering Limited 16 December 2024 Figure 102 Geotechnical engineering report (Page 6)

4 Insurance







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# Page 325 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



7



ABC Geotechnical Engineering Limited

16 December 2024

Figure 103 Geotechnical engineering report (Page 7)

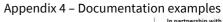




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Version as at **13/5/2025** 



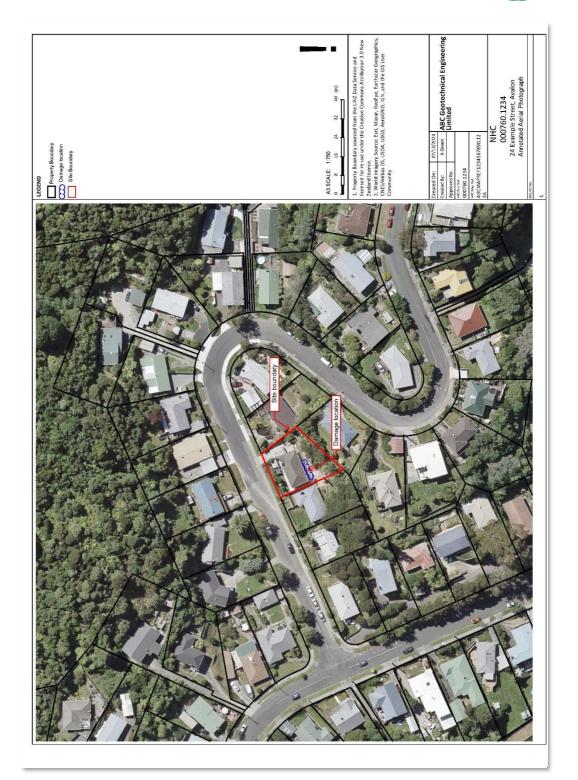


Figure 104 Geotechnical engineering report (Page 8)

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Appendix 4 – Documentation examples

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# Page 327 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



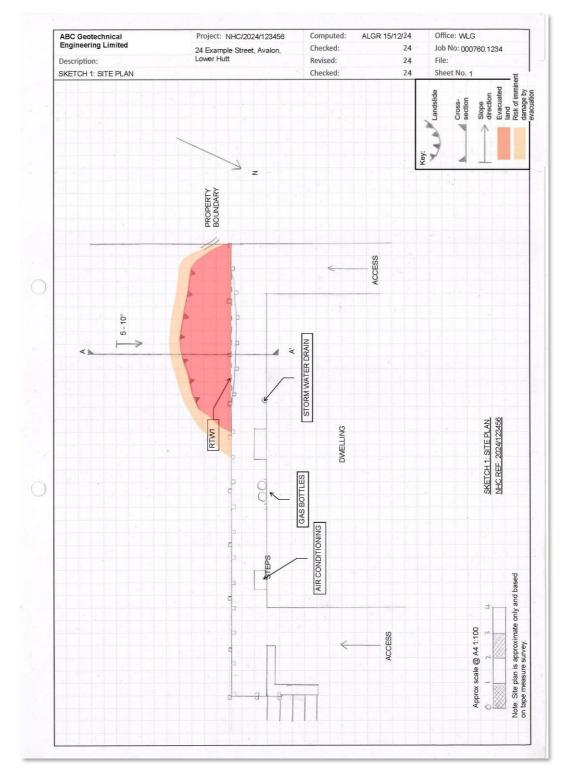


Figure 105 Geotechnical engineering report (Page 9)

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Appendix 4 – Documentation examples

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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

# Page 328 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



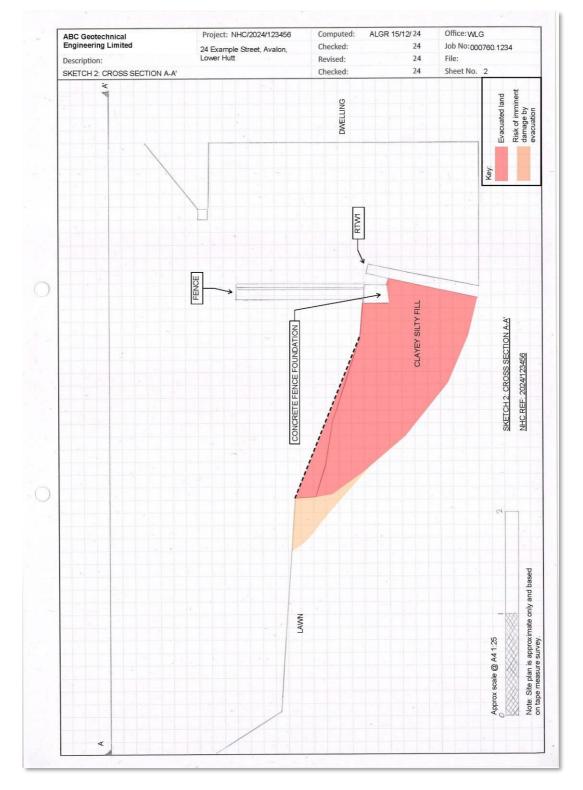


Figure 106 Geotechnical engineering report (Page 10)

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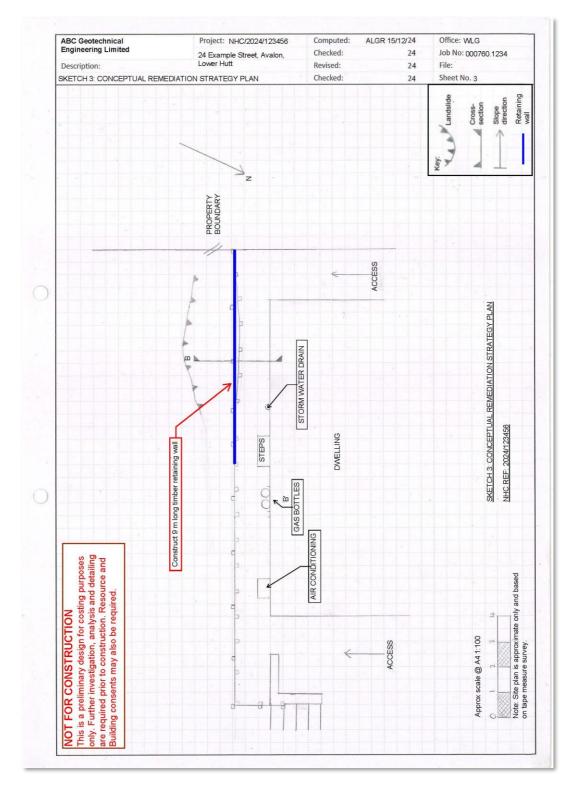
Appendix 4 – Documentation examples



# Page 329 of 427 | NHC Assessment Manual – NHI Act

# Version as at **13/5/2025**







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Appendix 4 – Documentation examples

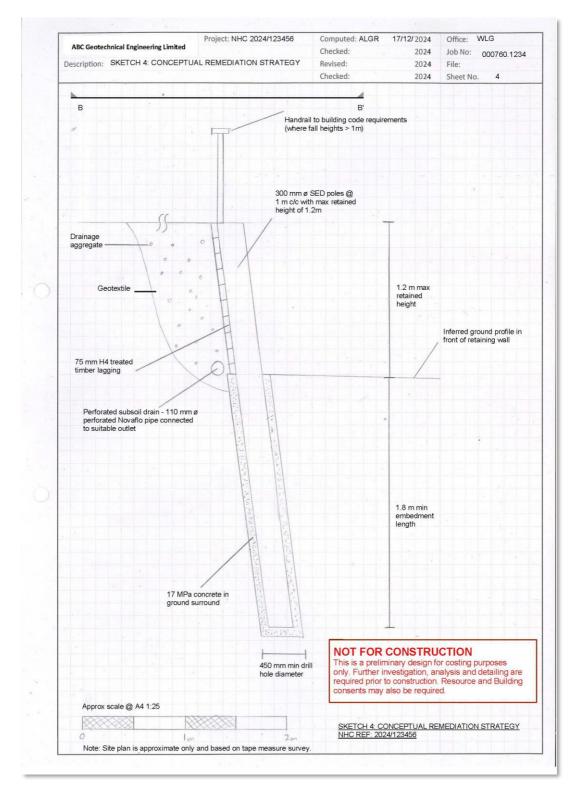
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# Page 330 of 427 | NHC Assessment Manual – NHI Act

# Version as at **13/5/2025**







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Page 331 of 427 | NHC Assessment Manual - NHI Act

Version as at 13/5/2025



# h. Valuer instruction

The following is an example instruction, typically prepared by the assessor, which sets out the request and provides the information the valuer will require to complete their valuation report.

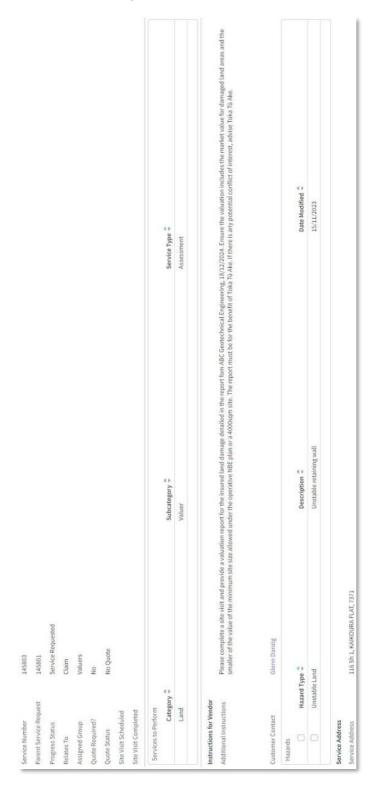


Figure 109 Valuer instruction

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NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 332 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### **Valuation report** i.

The following is an example valuation report, which meets the assessor's requirements as set out in their original instructions.

|                                      | XYZ Valuations Limite  |
|--------------------------------------|--|
|                                      |  |
| 14 January 2025                      |  |
|                                      |  |
| Natural Hazards Commission           | n Taka Ti, Ake   |
| Sent via email                       | Your Reference: NHC/2024/123456<br>Date of Valuation: 10 October 2024<br>Date of Inspection: 13 January 2025   |
| Attention: Michele Brown             |  |
|                                      |  |
| Dear Michele                         |  |
| property on 13 January 2025          | for valuation services. In accordance with our recent instructions we have inspected the<br>in order to assess the pre-loss value of the damaged land, as identified and outlined by<br>ering Limited engineering report supplied. |
|                                      | Of Example Charles Lances House  |
| Property Address:<br>Record of ⊤itle | 24 Example Street, Avalon, Lower Hutt<br>WNA/123   |
| Legal Description                    | Lot 1 Deposited Plan 12345   |
| Zoning                               | The property is zoned General Residential under the Hutt City District Plan. The<br>minimum net site area for subdivision is 400m <sup>2</sup>   |
| Minimum Sized Site                   | 400m <sup>2</sup>  |
| Total Site Area                      | 538m²  |
| Site Map:                            | Surra – Property Gut   |
|                                      |  |
| /aluation report (F                  | Page 1)  |

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Page 333 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



**XYZ** Valuations Limited

#### VALUATION SUMMARY

In accordance with Natural Hazards Commission Toka Tū Ake requirements and pursuant to the Natural Hazards Insurance Act 2023, values (GST inclusive, if any) are assessed as follows:

| Description  | Area              | Value     |
|--|-------------------|-----------|
| 1a. Minimum sized site                               | 400m <sup>2</sup> |           |
| 1b. Value of Minimum sized site                      |                   | \$300,000 |
| 1c. Actual site area                                 | 538m²             |           |
| 1d. Value of 4,000m <sup>2</sup> lot (if applicable) | N/A               | N/A       |
| 2. Land actually damaged                             |                   |           |
| Within 8m of dwelling                                |                   |           |
| - Evacuated  | 11m <sup>2</sup>  | \$8,250   |
| - Inundated  | N/A               | N/A       |
| Main access within 60m of dwelling                   |                   |           |
| - Evacuated  | N/A               | N/A       |
| - Inundated  | N/A               | N/A       |
| 3. Land at imminent risk                             |                   |           |
| Within 8m of dwelling                                |                   |           |
| - Evacuation   | 4m <sup>2</sup>   | \$3,000   |
| - New Inundation                                     | N/A               | N/A       |
| - Re-inundation                                      | N/A               | N/A       |
| Main access within 60m of dwelling                   |                   |           |
| - Evacuation   | N/A               | N/A       |
| - New Inundation                                     | N/A               | N/A       |
| - Re-inundation                                      | N/A               | N/A       |
|  |                   |           |

#### VALUATION NOTES

#### 1a - Value of Minimum Sized Site.

The Act stipulates that the assessed market value is to be calculated by first determining the 'area cap', which is the smaller of the minimum sized land area allowable under the operative district plan, or 4,000 m<sup>2</sup>. Once the area cap has been determined, the assessed market value depends on whether the area of damaged land is less than, equal to, or greater than the area cap. If the area of the damaged land is:

- less than or equal to the area cap, the assessed market value is the prior market value of that part of the
  residential land.
- greater than the area cap, the assessed market value is the prior market value of a hypothetical area of
  residential land that has an area equal to the area cap, is situated in the same place as the residential land
  and has all the same features as the residential land.

Our assessed value has been analysed using market-based evidence as prevalent in October 2024. The 400m<sup>2</sup> site assumes all the same physical features, e.g. overland flood path, locality and contour. Based on our analysis we assess the value of the minimum sized site to be **\$300,000**.

#### Date of valuation

The effective date of valuation is as at 10 October 2024.

Figure 111 Valuation report (Page 2)

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Page 334 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



**XYZ Valuations Limited** 

#### Documents supplied

The description of damage provided in the ABC Geotechnical Engineering Limited engineering report dated 18 December 2024 has been adopted for valuation purposes.

Thank you for the opportunity to provide valuation services. Please do not hesitate to contact me should you require any further assistance or clarification.

This brief report has been prepared to meet the requirements of the Natural Hazards Commission Toka Tù Ake and it is acknowledged that it does not meet PINZ or NZIV minimum reporting standards.

Yours faithfully XYZ Valuations Limited

June White Registered Valuer, ANZIV Analysis / Report Preparation

James Black Registered Valuer Peer Review

Figure 112 Valuation report (Page 3)

4 Insurance







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Appendix 4 – Documentation examples

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Page 335 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# j. Notification of a potentially dangerous building

The following is an example form used by the assessor to notify the relevant TA of a potentially dangerous building.

| from damaged land and/or buildings         ral Hazards Commission Toka Tū Ake (NHC Toka Tū Ake) staff and assessors visit         ential properties to assess land and building damage resulting from a natural hazard.         e course of doing so, we have identified a property that in our opinion may pose a         t to personal safety by being dangerous or insanitary.         /ies being notified:         territorial authority property owner coccupants neighbours other/s         se give details)_         notification relates to:         d damage       dangerous building         insanitary building         ddress of the property is: | Notification of a potential risk of injury to people<br>from damaged land and/or buildings<br>Natural Hazards Commission Toka Tū Ake (NHC Toka Tū Ake) staff and assessors visit<br>residential properties to assess land and building damage resulting from a natural hazard<br>In the course of doing so, we have identified a property that in our opinion may pose a<br>threat to personal safety by being dangerous or insanitary.<br>Party/ies being <b>notified</b> : |
|---|--|
| ential properties to assess land and building damage resulting from a natural hazard.<br>a course of doing so, we have identified a property that in our opinion may pose a<br>t to personal safety by being dangerous or insanitary.<br>/ies being <b>notified</b> :<br>territorial authority  | residential properties to assess land and building damage resulting from a natural hazard<br>In the course of doing so, we have identified a property that in our opinion may pose a<br>threat to personal safety by being dangerous or insanitary.  |
| territorial authority  property owner  occupants  neighbours  other/s se give details)  | Partv/ies being <b>notified</b> :  |
| se give details)<br>notification relates to:<br>d damage □ dangerous building □ insanitary building<br>ddress of the property is:   |  |
| d damage □ dangerous building □ insanitary building<br>ddress of the property is:   | $\Box$ the territorial authority $\Box$ property owner $\Box$ occupants $\Box$ neighbours $\Box$ other/s (please give details)_  |
| ddress of the property is:  | This notification relates to:  |
|   | □ land damage □ dangerous building □ insanitary building   |
| uilding appears to be: 🗆 occupied 🗆 unoccupied  | The address of the property is:  |
|   | The building appears to be: 🗆 occupied 🗆 unoccupied  |
| isk posed is as follows:  | The risk posed is as follows:  |
|   |  |
|   |  |
|   | NHC Toka Tũ Ake is aware that:   |
| isk posed is as follows:  | I his notification relates to:<br>□ land damage □ dangerous building □ insanitary building<br>The address of the property is:<br>The building appears to be: □ occupied □ unoccupied<br>The risk posed is as follows:  |
|   |  |
|   |  |
|   |  |
|   | NHC Toka Tū Ake is aware that:   |

Figure 113 Notification of a potentially dangerous building form (Page 1)

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Appendix 4 – Documentation examples

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# Page 336 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



2

| and can take action on dangerous, or insanitary buildings in its area |
|---|
| We notify you regarding this property because:                        |

the Natural Hazards Insurance Act 2023.

 new/additional/previously unreported damage (select as appropriate) has been identified regarding this property that in our opinion is dangerous / insanitary (selectas appropriate).

1. Under the Building Act 2004 a territorial authority is responsible for identifying

- there do not appear to have been any steps taken to warn people of the dangerposed
- residents, neighbours or passers-by appear not to be complying with (or are unaware of) any steps that have been taken to warn people of the danger posed
- other (please give details):

# Disclaimer

While NHC Toka Tū Ake has taken reasonable care in providing this warning, neither we, our employees, nor anyone else that we are responsible for:

- represent or warrant the accuracy of the information or any opinion in this document: this notification is intended solely as a warning of a public health and safety hazard; or
- 2. will have any liability (including for negligence) for any statements, interpretations, information or matters (express or implied) arising out of, contained in or derived from, or for any omissions from or failure to correct any information in, this document or any other written or oral communications transmitted to any recipient of this document in relation to its subject matter; or
- 3. are under any obligation to update any information contained in this document or to notify any person or local authority should any such information cease to be correct after the date of this document.

| ) | Assessor:   |   |                  |   |                            |
|---|-------------|---|------------------|---|----------------------------|
| I | Phone:      |   |                  |   |                            |
| I | Email:      |   |                  |   |                            |
| I | Date:       |   |                  |   |                            |
|   |             |   |                  |   |                            |
|   |             |   |                  |   |                            |
|   |             |   |                  |   |                            |
|   |             |   |                  |   |                            |
|   | Version: 02 | ] | Owner: HSSW Team | I | Next update: November 2026 |

Figure 114 Notification of a potentially dangerous building form (Page 2)









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Appendix 4 – Documentation examples

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| age 337 of 427   NHC | Assessment Manual – NHI Act   | Version as at <b>13/5/2025</b>                      | Natural Haz<br>Commission<br>Toka Tū Ake |
|----------------------|---|---|--|
|                      |   |   | 3  |
|                      | <u>NHC Toka Tū Ake use only</u>   |   |  |
|                      | Claim number:   |   |  |
|                      | Who has been <b>verbally</b> notified?  |   |  |
|                      | □ emergency services □ the territorial auth<br>□ neighbours □ other/s (please giv | nority □ property owner □ occupants<br>re details): |  |
|                      | Referred to Team Leader, Claim Specialists:                                       | u yes □ no (state reason)                           |  |
|                      | Name:   |   |  |
|                      | Phone:  |   |  |
|                      | Date:   |   |  |
|                      | Health and Safety Manager informed:   | 🗆 yes 🛛 🗆 no (state reason)                         |  |
|                      | Added to the NHC Toka Tū Ake Dangerous Pr   | roperty Register: 🛛 yes 🗆 no (state reason)         |  |
|                      | Added to the 'hazards section' of the Claim N<br>reason)                          | Management System (CMS): □ yes  □ no (state         |  |
|                      | Party/ies notified:   |   |  |
|                      | Date referred:  |   |  |
|                      | Version: 02 Owner: HSSW 1   | Team Next update: November 2026                     |  |

Figure 115 Notification of a potentially dangerous building form (Page 3)



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Version as at **13/5/2025** 



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# What constitutes a dangerous building/land

In your opinion, is the dangerous building / land likely to cause either:

- injury or death (for example if it collapsed, or by other means) to people in it or people in other property; or
- damage to other property.

#### What constitutes an insanitary building

In your opinion, is the building offensive or likely to be harmful to health because:

- of how it is situated or constructed; or
- it is in a state of disrepair; or
- it does not have adequate sanitary facilities.

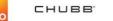
Version: 02

Owner: HSSW Team

Next update: November 2026

Figure 116 Notification of a potentially dangerous building form (Page 4)

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Appendix 4 – Documentation examples

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Page 339 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# i. Site assessment documentation standards

When completing the site assessment, record:

- details of the parts of the building (where applicable), e.g. foundation, wall and roof cladding type and materials;
- details of the parts of the land (where applicable), e.g. land structures, property boundaries and appurtenant structures;
- a summary of the customer's concerns and their view of the damage to their property. Make special note of areas the customer says are damaged, but which are not considered natural hazard damage;
- each issue you observe and your findings about the cause of the damage;
- each area of damage, noting the product or material type;
- clear sketches and relevant photographs (see standards below) of areas of damage, both accepted and non-accepted, and any other property where appropriate; and
- the details of your conversation informing the customer of the assessment outcome and the next steps with the claim.
- a. Standards for sketches

# **Residential building claims**

For residential building claims, your building or room sketch must include:

- the basic footprint of each damaged room;
- the relevant scale or dimension for each damaged room;
- the damage the customer has reported;
- the location and extent of damage in each room, e.g. the length of cracks, area of collapsed ceiling tiles;
- the location of relevant openings or penetrations, to help with orientation.

If the extent or location of the damage requires a footprint of the whole house, include the direction of north. For larger or more complex building types, e.g. multiunit buildings, you may wish to request a copy of the building plans from the owner or body corporate to record this information more efficiently.

# Residential land claims

For residential land claims, your sketch must include:

• the extent of the insured person's land;<sup>141</sup>

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Appendix 4 – Documentation examples

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<sup>&</sup>lt;sup>141</sup> If it is not appropriate to identify and record damage to the entirety of the insured person's land (e.g. on a large lifestyle property or farm), you may identify a smaller area of land to limit your

# NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

# Page 340 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- the extent of the insured residential land. This includes:
  - insured land areas and land structures within the insured person's land (whether damaged or not), and;
  - insured land structures outside the insured person's land that are lost or damaged (if any);
- the type and extent of the land damage. This includes natural hazard damage (including imminent damage) to:
  - $\circ~$  the insured land areas; and
  - any uninsured land areas and land structures within the insured person's land; and
  - $\circ$  any insured land structures within and outside the insured person's land.
- the location and scale of any residential buildings;
- the extent of the insured residential land in relation to any residential building (including insured land structures) that is lost or damaged, including any imminent damage.

Your sketch must be presented in a format that includes the following details. It must:

- be drawn to scale;
- identify the boundary of the insured person's land (including dimensions);
- indicate the dimensions of the house and any appurtenant structures;
- indicate (with the red dotted line) the insured land area within 8 metres of the house and any appurtenant structures;
- identify the main access way (including its distance from the house);
- identify the areas of damaged land that are insured and not insured;
- include details of the location and type of the retaining walls;
- identify the street name; and
- show the direction of north.

For an example of a land sketch, see Appendix 4 Section g Land sketch in this Manual.

b. Standards for photographs and video

When you are taking photographs (and recording video, if applicable) of the customer's property, ensure the customer is aware of this and that you have their permission.

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Appendix 4 – Documentation examples

assessment of the land to. For more information, see the <u>NHC Claims Manual – Residential Land –</u> <u>NHI Act, Section 7.A.b.ii Assessing the type and extent of the natural hazard damage to the land</u> <u>area and land structures on the insured person's land</u>.

# Page 341 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Avoid including people and any potentially sensitive items in your photographs (and any video), e.g.:

- washing on a clothesline;
- documents, books or magazines on shelves or tables;
- photographs or certificates on walls and shelves;
- any personal items in bedrooms or bathrooms;
- vehicle licence plates.

For video, also avoid including potentially sensitive audio, e.g. private conversations.

Generally, you should take a series of photographs (and videos, if applicable) progressing from general to specific, using three vantage points:

- long-range
- mid-range
- close-up.

If there has been no damage or minor damage, you might take only a few mid-range and close-up photographs (and a short video, if applicable) of any areas of interest. For more severe damage, you should take a greater number of photographs (and amount of video) in a more structured manner.

- Long-range photographs of the insured property may be required, e.g. an aerial view of the entire property, the four compass point views of the insured residential building exterior, or a view of the entire length of the main access way showing any relevant residential buildings or land structures.
- Mid-range photographs may be required, e.g. a view of an exterior elevation to record the damage across the entire elevation, or a view of the length of a hallway showing the various entrances and exits.
- Close-up photographs will provide a view of the specific damage that you want to record and may include a measuring tool to illustrate the relative size of the damage. For example, the detail of a hairline crack in the exterior cladding (which is clear and shows the size) may be vital when determining whether it is natural hazard damage if challenged.

The interpretation of long-range, mid-range and close-up depends on the type and extent of damage, as well as the specifics of the property you are assessing.

# k. Structural engineer letter of engagement

The following is an example instruction typically prepared by the assessor, which sets out their requirements to the engineer for assessing and reporting natural hazard damage or providing a suitable conceptual remediation strategy. It has been adapted from an Engineering New Zealand template engagement letter.

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Appendix 4 – Documentation examples

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# Page 342 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



27/07/2024

Joe Engineer

ABC Engineering Ltd

By email: jengineer@abcengineering.co.nz

LETTER OF ENGAGEMENT – ASSESSMENT AND REINSTATEMENT REPORT 1 Main Street, Example Town NHC/2024/123456

Toka Tū Ake Natural Hazards Commission (**the insurer**) would like to engage you, under the terms and conditions set out in Schedule 3, to assess 1 Main Street, Example Town (the **house**), identify any structural earthquake **damage** and recommend an appropriate reinstatement methodology for the house. Please provide your assessment and recommendations in the form of a written report, using the framework in Schedule 2. All bolded words in this letter are defined in Schedule 1. Please use these definitions when completing your assessment and report.

If, after reading through the relevant documentation in Schedule 4 or your initial inspection, you find that you need to undertake any additional investigations, require input from another professional, or require any further information (such as geotechnical or survey information), please let us know as soon as possible.

# Your obligations

CHUBB.

You should carry out your assessment objectively and not act as an advocate for either party. You must act without bias. Your role is to give us technically accurate advice, regardless of whether that advice aligns with our interests or opinion.

You must also comply with the Engineering New Zealand Code of Ethical Conduct and Privacy Act 2020 in carrying out this work.

We are not asking you to interpret the NHI Act, comment on the cost of reinstatement, make decisions or advise on the extent of our obligations.

To undertake this work, you should be a Chartered Professional Engineer or senior engineer with experience in structural engineering, and in assessments of earthquake damaged buildings. You should also have a strong knowledge of building regulatory requirements and how to apply them. You must only advise on matters within your area of competence as a structural engineer.

You may find that you have a conflict of interest and cannot carry out the assessment we are asking for. For example, if you or someone else at your firm has previously provided an assessment or reinstatement advice in relation to the house for another party. Please consider this carefully and if you might have a conflict of interest, let us know before you accept this engagement.

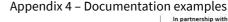
You should ensure that as part of your assessment you discuss with the homeowner their observations of structural earthquake damage.

Page 1 of 11

Figure 117 Structural engineer letter of engagement (Page 1)







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Page 343 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Damage assessment

After you review the background information about the house enclosed in Schedule 4, please carry out an onsite non-intrusive inspection of the **house**.

In your report, please make all reasonable efforts to identify and explain (with supporting evidence): Earthquake damage to structural elements

- any damage that has been caused by the earthquakes; and
- any work that has been carried out to repair the earthquake damage, and any aspect of that work you consider is inadequate from a structural perspective.

#### Pre-existing conditions or damage

- any pre-existing conditions or damage that have been exacerbated by the earthquakes; and
- any conditions or damage you consider to be pre-existing and not exacerbated by the earthquakes; and
- any legal obligation to modify the property at the time the natural hazard damage occurred or in the future.

#### Alterations or renovations

 any alterations or renovations to the house that addressed or failed to address, pre-existing conditions or damage.

#### Reinstatement methodology

If you have identified either earthquake damage to structural elements or repair work that is inadequate from a structural perspective, please provide your opinion on whether the elements can be reinstated to **the required standard** (refer Schedule 1).

As part of providing your opinion:

- if the damage cannot be remedied, explain why;
- if there are conditions, damage, alterations or renovations that predate the earthquakes or prevent reinstatement to the required standard, please explain why.

If the **damage** can be remedied, describe the methodology needed to reinstate the **damage** to **the required standard**, and the scope of works. If there is more than one possible methodology for reinstatement to **the required standard**, please describe the functional advantages and disadvantages of each possible methodology.

#### Facilitation

If there is disparity between your report and the report of an engineer for another party, you may be asked to participate in an Engineering New Zealand Facilitation process with that other engineer. You are obliged to participate openly and professionally in that process at an agreed additional fee if asked.

#### Expert Witness

CHUBB.

If there is a dispute between the parties, you may be asked to attend a dispute resolution process such as a facilitation, determination, or tribunal or court proceedings. Before you issue your report, please ensure you have read, understood and complied with the Code of Conduct for Expert Witnesses, Schedule 4 of the High Court Rules 2016, enclosed in Schedule 4 of this letter.

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Page 2 of 11

Figure 118 Structural engineer letter of engagement (Page 2)



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Appendix 4 – Documentation examples

QBE

Page 344 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



## Fees

Please provide a fee proposal for the structural assessment of the house located at 1 Main Street based on the attached letter of engagement. Before work commences, NHC must accept the fee proposal.

Once a fee has been agreed, if any work is required beyond the scope of this letter of engagement, you must seek endorsement for that additional work from NHC.

#### Engagement

You may not assign or subcontract this engagement without our prior written consent. Your advice is for the benefit of, and may be relied on by, the NHC.

Please contact us if you need to discuss any part of this letter. Otherwise please sign below and return by email by [date] or as otherwise discussed. Thank you for assisting us in this matter.

After you issue your report, you may be engaged under a new contract with the homeowner to carry out your reinstatement methodology, including issuing a PS1 and PS4 if necessary. This however is not a mandatory outcome.

Yours sincerely

A Assessor

I am a suitably competent engineer to undertake this work and I accept the terms as set out in this letter of engagement.

Joe Engineer

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Page 3 of 11

Figure 119 Structural engineer letter of engagement (Page 3)

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Appendix 4 – Documentation examples





NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

# Page 345 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### SCHEDULE 1: DEFINITIONS

#### "House"

The insurance policy will define what structures on the property are covered by the policy and what are not. For example, garages, glasshouse, swimming pools, retaining walls, driveways, and so forth.

Some policies refer to the term "house" when defining what structures are covered by the policy. Other policies may refer to the term "building". Whatever term is used, please check the policy to see what structures on the property should be considered in your assessment and recommendations.

For the purposes of NHC, the NHI Act provides cover for the items of property captured by the definition "residential building" in section 9 of that Act. Schedule 2 of the NHI Act sets out property that is not insured under that Act and some property that may be insured in limited circumstances.

#### "Damage"

A structural element is earthquake damaged if,

- its physical state has been measurably or visibly altered as a direct result of the earthquake in a negative way; and
- that alteration is more than de minimis; and
- that alteration affects the original functionality of the structural element.

This requires you to assess:

- whether a physical change has occurred to any structural element of the house;
- the cause of the physical change;
- the function of that element; and
- any change in function of that element due to the physical change it has suffered.

#### "the required standard"

Where earthquake damage has occurred to a structural element, or previous repair work to the earthquake damaged structural element is inadequate, your reinstatement methodology, whether it involves repair or replacement, must meet the following requirements:

- a. the reinstatement methodology of a structural element must restore the functionality and durability equivalent to when it was originally constructed.
- b. the reinstatement methodology of a structural element does not have to make the damaged structural element an exact replica of the original; and
- c. current materials and methods must be used; and
- the reinstatement work must meet current building regulatory requirements, including the Building Code to the extent required by the Building Act.

UNCLASSIFIED

Page 4 of 11

Figure 120 Structural engineer letter of engagement (Page 4)

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Version as at **13/5/2025** 



# SCHEDULE 2: REPORTING FRAMEWORK

Engineering New Zealand recommends that engineers reporting on damage assessments and reinstatement set out their reports using the following framework.

The purpose of this framework is to provide greater consistency in the way engineers report their assessments of earthquake damage and reinstatement methodologies. This helps homeowners and insurers more easily compare reports and identify where their engineers agree and disagree.

Engineering New Zealand recommends that engineers set out their reports using the following headings, and make sure that, at a minimum, they address the points in the explanatory notes for each heading.

## DAMAGE ASSESSMENT AND REINSTATEMENT REPORTING FRAMEWORK

| Section | Content  | Explanatory notes  |
|---------|--|--|
| 1.      | Scope of engagement  | Reference the standard set out in the policy, as well as the definition of the standard from the instruction. Limitations/disclaimers  |
| 2.      | Summary of inspections undertaken                                      | Date, scope of inspection and personnel involved   |
| 3.      | Documentation reviewed   | Previous assessments; geotechnical reports   |
| 4.      | Building and site description  | Include age and type of construction; main dwelling and other structures   |
| 5.      | Geotechnical considerations  | Key relevant points from geotechnical reports, e.g. site<br>performance, bearing capacity, SLS settlement, lateral<br>stretch status, presence of uncontrolled fill/compressible<br>soils etc. |
| 6.      | Summary and discussion of<br>earthquake damage and previous<br>repairs |  |
| 6.1     | Homeowner comments   | Relevant damage observations from the homeowner as well as any information provided by the homeowner about previous repairs, alterations and renovations.                                      |
| 6.2     | Earthquake damage to structural elements                               | Identify current damage, establishing what was caused or<br>exacerbated by the earthquakes, and differentiating from<br>non-earthquake damage, with supporting evidence                        |
| 6.3     | Pre-existing condition of structural elements                          |  |

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Page 5 of 11

Figure 121 Structural engineer letter of engagement (Page 5)

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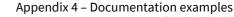
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# Page 347 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| 6.4 | Previous repairs undertaken                    | Identify the nature and effectiveness or otherwise of any<br>previous repairs   |
|-----|--|---|
| 7.  | Reinstatement methodology                      |   |
| 7.1 | Definition of required standard applied        |   |
| 7.2 | Recommended remediation                        | Outlining how the damage attributable to the earthquake is<br>to be remedied (taking into account any previous repairs) in<br>order to meet the required standard |
| 7.3 | Further investigations or information required |   |
| 7.4 | Further engineering design input required      |   |
| 8.  | Summary  | Summarising the key findings and recommended remediation approach (options)   |

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Page 6 of 11

Figure 122 Structural engineer letter of engagement (Page 6)

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Appendix 4 – Documentation examples

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## Page 348 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### SCHEDULE 3: SHORT FORM CONDITIONS OF ENGAGEMENT

- 1. The Consultant shall perform the Services as described in the attached documents.
- Nothing in this Agreement shall restrict, negate, modify or limit any of the Client's rights under the Consumer Guarantees Act 1993 where the Services acquired are of a kind ordinarily acquired for personal, domestic or household use or consumption and the Client is not acquiring the Services for the purpose of a business.
- The Client and the Consultant agree that where all, or any of, the Services are acquired for the purposes of a business the provisions of the Consumer Guarantees Act 1993 are excluded in relation to those Services.
- In providing the Services the Consultant shall exercise the degree of skill, care and diligence normally expected of a competent professional.
- 5. The Client shall provide to the Consultant, free of cost, as soon as practicable following any request for information, all information in his or her power to obtain which may relate to the Services. The Consultant shall not, without the Client's prior consent, use information provided by the Client for purposes unrelated to the Services. In providing the information to the Consultant, the Client shall ensure compliance with the Copyright Act 1994 and shall identify any proprietary rights that any other person may have in any information provided.
- 6. The Client may order variations to the Services in writing or may request the Consultant to submit proposals for variation to the Services. Where the Consultant considers a direction from the Client or any other circumstance is a Variation the Consultant shall notify the Client as soon as practicable.
- 7. The Client shall pay the Consultant for the Services the fees and expenses at the times and in the manner set out in the attached documents. Where this Agreement has been entered by an agent (or a person purporting to act as agent) on behalf of the Client, the agent and Client shall be jointly and severally liable for payment of all fees and expenses due to the Consultant under this Agreement.
- 8. All amounts payable by the Client shall be paid within twenty (20) working days of the relevant invoice being mailed to the Client. Late payment shall constitute a default, and the Client shall pay default interest on overdue amounts from the date payment fails due to the date of payment at the rate of the Consultant's overdraft rate plus 2% and in addition the costs of any actions taken by the Consultant to recover the debt.
- 9. Where Services are carried out on a time charge basis, the Consultant may purchase such incidental goods and/or Services as are reasonably required for the Consultant to perform the Services. The cost of obtaining such incidental goods and/or Services shall be payable by the Client. The Consultant shall maintain records which clearly identify time and expenses incurred.
- 10. Where the Consultant breaches this Agreement, the Consultant is liable to the Client for reasonably foreseeable claims, damages, liabilities, losses or expenses caused directly by the breach. The Consultant shall not be liable to the Client under this Agreement for the Client's indirect, consequential or special loss, or loss of profit, however arising, whether under contract, in tort or otherwise.

- 11. The maximum aggregate amount payable, whether in contract, tort or otherwise, in relation to claims, damages, liabilities, losses or expenses, shall be five times the fee (exclusive of GST and disbursements) with a maximum limit of \$NZ500,000.
- 12. Without limiting any defences a Party may have under the Limitation Act 2010, neither Party shall be considered liable for any loss or damage resulting from any occurrence unless a claim is formally made on a Party within 6 years from completion of the Services.
- 13. The Consultant shall take out and maintain for the duration of the Services a policy of Professional Indemnity insurance for the amount of liability under clause11. The Consultant undertakes to use all reasonable endeavours to maintain a similar policy of insurance for six years after the completion of the Services.
- 14. If either Party is found liable to the other (whether in contract, tort or otherwise), and the claiming Party and/or a Third Party has contributed to the loss or damage, the liable Party shall only be liable to the proportional extent of its own contribution.
- 15. Intellectual property prepared or created by the Consultant in carrying out the Services ("New Intellectual Property") shall be jointly owned by the Client and the Consultant. The Client and Consultant hereby grant to the other an unrestricted royalty-free license in perpetuity to copy or use New intellectual Property. Intellectual property owned by a Party prior to the commencement of this Agreement and intellectual property created by a Party independently of this Agreement remains the property of that Party. The ownership of data and factual information collected by the Consultant and paid for by the Client shall, after payment by the Client, lie with the Client. The Consultant does not warrant the suitability of New Intellectual Property for any purpose other than the Services or any other use stated in the Agreement.
- 16. The Consultant and the Client will be aware of, and comply with, any relevant obligations imposed on them under the Health and Safety at Work Act 2015 (the "Act"). The Consultant has not and will not assume any duty imposed on the Client from time to time pursuant to the Act arising out of this engacement.
- 17. The Client may suspend all or part of the Services by notice to the Consultant who shall immediately make arrangements to stop the Services and minimise further expenditure. The Client and the Consultant may (in the event the other Party is in material default) terminate the Agreement by notice to the other Party. Suspension or termination shall not prejudice or affect the accrued rights or claims and liabilities of the Parties.
- The Parties shall attempt in good faith to settle any dispute by mediation.
- This Agreement is governed by the New Zealand law, the New Zealand courts have jurisdiction in respect of this Agreement, and all amounts are payable in New Zealand dollars.

UNCLASSIFIED

Page 7 of 11

Figure 123 Structural engineer letter of engagement (Page 7)

FMG

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TOWER

Appendix 4 – Documentation examples

QBE

Council of New Zealand

# Version as at **13/5/2025**



# SCHEDULE 4: CODE OF CONDUCT FOR EXPERT WITNESSES, HIGH

# COURT RULES 2016, SCHEDULE 4

#### DUTY TO THE COURT

- 1. An expert witness has an overriding duty to assist the court impartially on relevant matters within the expert's area of expertise.
- 2. An expert witness is not an advocate for the party who engages the witness.

**2A** If an expert witness is engaged under a conditional fee agreement, the expert witness must disclose that fact to the court and the basis on which he or she will be paid.

**2B** In subclause 2A, **conditional fee agreement** has the same meaning as in <u>rule 14.2(3)</u>, except that the reference to legal professional services must be read as if it were a reference to expert witness services.

## EVIDENCE OF EXPERT WITNESS

- 3. In any evidence given by an expert witness, the expert witness must-
  - a. acknowledge that the expert witness has read this code of conduct and agrees to comply with it:
  - b. state the expert witness' qualifications as an expert:
  - c. state the issues the evidence of the expert witness addresses and that the evidence is within the expert's area of expertise:
  - d. state the facts and assumptions on which the opinions of the expert witness are based:
  - e. state the reasons for the opinions given by the expert witness:
  - f. specify any literature or other material used or relied on in support of the opinions expressed by the expert witness:
  - g. describe any examinations, tests, or other investigations on which the expert witness has relied and identify, and give details of the qualifications of, any person who carried them out.
- 4. If an expert witness believes that his or her evidence or any part of it may be incomplete or inaccurate without some qualification, that qualification must be stated in his or her evidence.
- If an expert witness believes that his or her opinion is not a concluded opinion because of insufficient research or data or for any other reason, this must be stated in his or her evidence.

## DUTY TO CONFER

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- 6. An expert witness must comply with any direction of the court to
  - a. confer with another expert witness:
  - try to reach agreement with the other expert witness on matters within the field of expertise of the expert witnesses:
  - prepare and sign a joint witness statement stating the matters on which the expert witnesses agree and the matters on which they do not agree, including the reasons for their disagreement.

UNCLASSIFIED

Page 8 of 11

Figure 124 Structural engineer letter of engagement (Page 8)





Appendix 4 – Documentation examples

QBE



# Page 350 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



 In conferring with another expert witness, the expert witness must exercise independent and professional judgment, and must not act on the instructions or directions of any person to withhold or avoid agreement.

# SCHEDULE 5: ADDITIONAL INFORMATION ABOUT THE HOUSE

#### BACKGROUND

- 1. This instruction relates to the residential dwelling at 1 Main Street, Example Town
- The property was constructed in 1947 and is clad in timber weatherboard, with a concrete tile roof and a perimeter foundation with internal timber piles. The dwelling footprint is approx. 110m2

An NHC assessment was carried out on 25 July 2024. This assessment notes the following:

- cracking to interior wall and ceiling linings.
- binding if some interior doors.
- damage to the exterior cladding, including both misalignment of and some rotten weather boards.
- The roof shows signs of fresh cracking along the ridge cap,
- there is minor cracking damage to the concrete precast chimney.
- Minor cracking damage to the perimeter foundation.
- There is notable floor dislevelment throughout the entire house
- 3. NHC and the owner will confirm a convenient time for you to inspect the dwelling. NHC may send one of its estimators or assessors to attend the site visit with you. The owner may also be present and may be accompanied by a support person or technical advisor(s).

#### TIMEFRAMES

4. We would like to have a copy of your draft report as soon as possible. This would mean that it would be preferable if your site visit could take place within 2 weeks of receiving this letter. Please contact us as soon as possible should this not be achievable.

## SOME FURTHER INFORMATION

5. In **Schedule 6**, we list the documents we are providing to you that we would like you to review when preparing your draft report.

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6. In Schedule 6.1, we set out in detail what your draft expert report should address.

TOWER

Figure 125 Structural engineer letter of engagement (Page 9)

CHUBB.



UNCLASSIFIED

Appendix 4 – Documentation examples

vero

Page 9 of 11





Version as at 13/5/2025



## SCHEDULE 6: LIST OF REPORTS AND DOCUMENTS

Your draft report will need to include a review of the following reports and documents: ]

| Document title                                       | Party who provided the<br>document | Date       |
|--|------------------------------------|------------|
| Building Assessment Report (pre-purchase inspection) | Customer                           | 12/08/2018 |
| Council Property File (Requested)                    | Council                            | TBC        |
| NHC Assessment report                                | NHC                                | 25/07/2024 |
| NHC Assessment report photos                         | NHC                                | 25/07/2024 |

#### SCHEDULE 6.1: WHAT YOUR DRAFT REPORT SHOULD INCLUDE

#### A FORENSIC ASSESSMENT

- 1. At a minimum the following information must be captured by you and be included in your report to support your opinion:
  - a. Floor levels;
  - b. Ceiling Levels;
  - c. Window sill levels;
  - d. Benchtop Levels;
  - e. Door head levels;
  - Levels for any other fixed features deemed by you to be noteworthy such as tiling, external weatherboards or guttering;
  - Commentary/discussion around the levels, variance(s) and how this relates to earthquake damage or otherwise;
  - h. Shallow Geotechnical Report if required
  - i. Foundation depth check if required

#### ASSUMPTIONS

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- 2. You should state the facts and assumptions on which your opinions are based and give reasons for your opinions.
- 3. You should also consider whether you need any further geotechnical or other specialist advice before you reach a conclusion about what earthquake damage the house has suffered and what the appropriate repair strategy is.
- If you cannot say conclusively whether (say) a particular item of damage is earthquake-related or not, it is enough for you to say, with reasons, what you consider the position is likely to be.
- 5. You should consider and identify the extent to which identification of the earthquake damage is restricted by previous repairs carried out by NHC.

#### COMMENTS ON OTHER REPORTS

You should identify where you agree or disagree with any report/s provided by NHC, the customer and/or private insurer's expert(s) and provide reasons for why you agree or disagree.

Page 10 of 11

UNCLASSIFIED

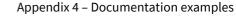
Figure 126 Structural engineer letter of engagement (Page 10)

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# Page 352 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



7. You should advise NHC in a timely manner if further geotechnical input is required to allow you to complete your reporting.

#### A SUFFICIENT LEVEL OF DETAIL

 Your recommended repair strategy will need to be sufficiently detailed to allow an NHC estimator to prepare a costed scope of works based on your report. As such, it is required that you include; quantities, areas, measurements and target levels as required.

# VISUAL AIDS

9. It is important that anyone reading your report for the first time can get a visual understanding about what your report is describing. To that end, your report should contain photographs and diagrams to illustrate the points you are making. If appropriate, it may also be useful to have a floor plan so that a reader unfamiliar with the property can understand where the various rooms and items of damage are.

## CAVEATS

- 10. If there are parts of your report that you think may be incomplete or inaccurate without qualification, you should state what that qualification is.
- If you cannot reach a concluded opinion because of insufficient research or data or for any other reason, you must say so.

UNCLASSIFIED

Page 11 of 11

Figure 127 Structural engineer letter of engagement (Page 11)

CHUBB.





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TOWER

Appendix 4 – Documentation examples



NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 353 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# l. Structural engineering report

The following is an example structural engineering report, which meets the assessor's requirements as set out in their original instructions.

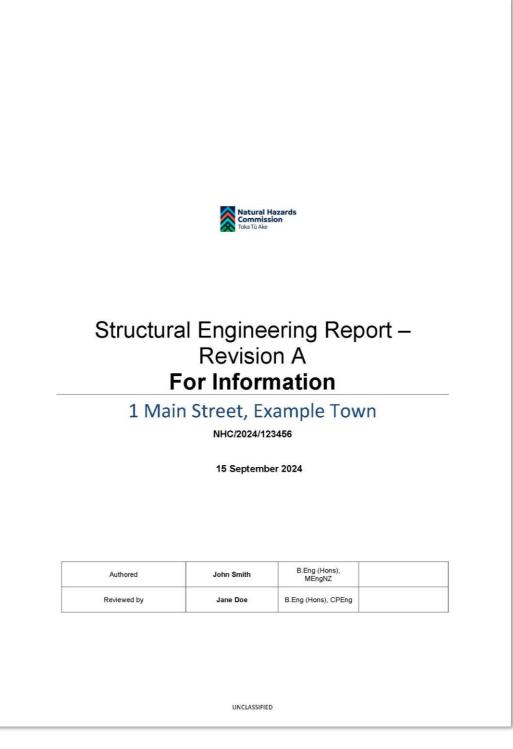


Figure 128 Structural engineering report (Page 1)

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Appendix 4 – Documentation examples

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CONT ICNZ Insurance Council of New Zealar



NHI Act – For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 354 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# Contents

| Dwelling Description                    | 2 |
|---|---|
| Site Description                        | 2 |
| Disclaimer                              | 3 |
| Terms of Engagement                     | 3 |
| Desktop Review                          | 3 |
| Additional Investigations               | 3 |
| Site Assessment                         | 4 |
| Discussion                              | 8 |
| Repair Recommendation                   | 8 |
| Approximate Scope of Structural Repairs | 9 |
| Drawings                                | 9 |
| Attachments                             | 9 |

| I | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 1 |
|---|-----------------|-----------------------------|-----------------|------------|--------|

UNCLASSIFIED

TOWER

iag

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CHUBB.

ANDO





Appendix 4 – Documentation examples







Appendix 4 – Documentation examples

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QBE



UNCLASSIFIED

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FMG

CHUBB.

**1** TOWER

Version as at **13/5/2025** 



## Disclaimer

- [1] This report has been prepared solely for the Natural Hazards Commission Toka Tū Ake (NHC) and persons authorised to manage claims on its behalf. This report is to be used only for the purposes of settling the Natural Hazards Cover (NHCover) claim. No use by any other party is permitted without the prior consent of both NHC and ABC Structural Engineers Limited.
- [2] The conceptual remedial solutions provided in this for information report shall not be used for repair works to the dwelling and appurtenant structures to which it relates without further involvement of an experienced Chartered Professional Structural Engineer (CPEng).

# **Terms of Engagement**

- [3] NHC has requested ABC Structural Engineers Limited to carry out a non-invasive inspection of the dwelling.
- [4] The inspection was completed on 31 August 2024 by the undersigned engineer and included the following items:
  - walk-through inspection, floor level check and reinforcement scanning.
- [5] The purpose of the inspection was to determine the extent of damage caused by the earthquake on 20 July 2024 in relation to the dwelling's structural elements and to provide a lawful means of structural repair to address the damage identified.
- [6] NHC is to confirm this scope of work fulfils the NHI Act and advise ABC Structural Engineers Limited should any changes to the outlined repair recommendations be required.

## **Desktop Review**

- [7] We have reviewed the available information/documentation listed below:
  - NHCover claim assessment on 25 July 2024
  - NHC file note on 26 July 2024
  - property files provided by Example District Council
  - shallow geotechnical report by XYZ Geotechnical Engineers Ltd on 22 August 2024.

#### Additional Investigations

[8] As per your instruction, we have engaged XYZ Geotechnical Engineers Limited to carry out a shallow geotechnical investigation and provide their report to assist with our conceptual remedial solutions to the foundation elements.

| I | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 3 |
|---|-----------------|-----------------------------|-----------------|------------|--------|
|   |                 | UNCLASSIFIED                |                 |            |        |

UNCLASSIFIED

**TOWER** 



CHUBB.



QBE

CONT ICNZ Insurance Council of New Zeala

Page 357 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## Site Assessment

#### **Homeowner Comments**

[9] We discussed with the customer on site the damage they have noticed, notably that the floor has begun to feel springy and noticeably out of level. They have also noticed that the exterior weatherboards appear to be out of alignment, and believe there may be some new cracking to the concrete perimeter.

#### **Dwelling Description**

- [10] The dwelling is a single-storey character home, which appears to be constructed in the early 20<sup>th</sup> century.
- [11] The dwelling features heavy-weight concrete tile roof cladding and light-weight weatherboard exterior wall cladding.
- [12] The foundation consists of a concrete perimeter foundation and internal precast concrete piles.

### **Construction of Roof and Foundation**

- [13] We confirmed the construction of the roof and subfloor foundation is as follows:
  - subfloor foundation: precast concrete piles (see Figure 1)
  - roof: timber rafters and struts (see Figure 2)
- [14] Note that only limited observations were made at the floor hatch and ceiling hatch respectively due to health and safety concerns.
- [15] We also scanned the concrete perimeter foundation with a rebar scanner and confirmed it is unreinforced.

#### **Floor Levels**

- [16] The floor levels were checked with a Zip level Pro 2000.
- [17] The floor was found to be out of level by 94 mm in total with the highest spot located in the dining area and the lowest spot located in Bedroom 1 (see Drawing SK1 attached).
- [18] It is worth noting that we have made all the necessary adjustments for different floor coverings including exposed floorboards, carpet, vinyl and ceramic tile.
- [19] We have also checked the levelness of other horizontal building elements (e.g. window sills and kitchen benchtop) with a digital spirit level in order to establish the potential causes of the floor dislevelment.

| l | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 4 |
|---|-----------------|-----------------------------|-----------------|------------|--------|
|   |                 | UNCLASSIFIED                |                 |            |        |
|   |                 |                             |                 |            |        |

UNCLASSIFIED

TOWER



CHUBB.



QBE



# Page 358 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Damage Observation – Exterior

- [20] We observed a ground fissure through the concrete driveway and the lawn (see Figures 3 and 4).
- [21] There was no evidence of liquefaction at the time of the walk-through inspection. The owners also confirmed that soil liquefaction ejecta was not observed on the property.
- [22] The concrete perimeter foundation exhibited cracking at multiple locations. The distribution of the observed cracks is shown in Drawing SK1.
- [23] Most of the cracks appeared to be fresh as evident in the sharpness of the crack edges (see an example in Figure 5). However, a few cracks appeared to be old with signs of rounded edges and some with paint embedment in the cracked surface (see an example in Figure 6).
- [24] The timber weatherboards along the driveway were found to be visibly out of alignment (see Figure 7).
- [25] There was damage to the ridge tiles.

#### Damage Observation - Interior

- [26] We observed wall/ceiling lining damage at several locations in the form of diagonal or straight cracking (see examples in Figures 8 and 9).
- [27] A number of doors and windows were found to be sticky and difficult to open and close.
- [28] The kitchen appeared to have been renovated prior to the earthquake with newer kitchen cabinetry and benchtop. We noted this newer kitchen benchtop is out of level.



Figure 1: Precast concrete piles



Figure 2: Timber rafters and struts

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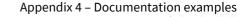
| I | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 5 |
|---|-----------------|-----------------------------|-----------------|------------|--------|
|   |                 | UNCLASSIFIED                |                 |            |        |

UNCLASSIFIED

# Figure 133 Structural engineering report (Page 6)

CHUBB.





QBE

# Page 359 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 





Figure 3: Location of ground fissure



Figure 4: Depression in ground where fissure extends



Figure 5: Fresh crack with sharp edges below North-facing window of Bedroom 3



Figure 6: Old crack with paint embedment below East-facing window of dining area

| I | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 6 |
|---|-----------------|-----------------------------|-----------------|------------|--------|

UNCLASSIFIED

TOWER

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FMG

CHUBB.

Figure 134 Structural engineering report (Page 7)





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# Page 360 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



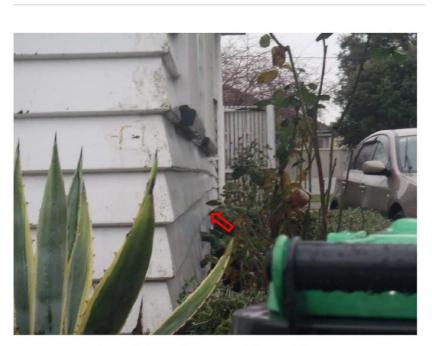


Figure 7: Timber weatherboards are visibly out of alignment



Figure 135 Structural engineering report (Page 8)









UNCLASSIFIED

Appendix 4 – Documentation examples

A QBE



Page 361 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



#### Discussion

- [29] Our floor level check confirms the dwelling has experienced differential foundation settlement of 94 mm.
- [30] While we acknowledge historical settlement as one of the possible contributing factors, there is evidence to suggest that a significant extent of the differential foundation settlement was likely caused by the 20 July 2024 earthquake:
  - The site has experienced lateral spread and ground depression following the earthquake.
  - The window sills and kitchen benchtop are out of level and correlate with the floor. It is
    reasonable to assume that the newer kitchen benchtop was installed, level prior to the
    earthquake.
  - The perimeter foundation has sustained recent cracking at multiple locations, and this is attributable to the lateral spread and ground depression.
  - Other earthquake damage indicators include out-of-alignment weatherboards, diagonal wall lining cracks and sticky doors/windows.
- [31] Therefore, we consider floor re-levelling is required in order to restore the functionality of the dwelling.

#### **Repair Recommendation**

[32] The below repair recommendations are considered to be a lawful means of repair in relation to the Building Act 2004 and Natural Hazards Insurance Act 2023 (NHI Act).

#### Localised Floor Re-levelling

- [33] We recommend the floor is to be re-levelled with the following methods (see Drawing SK2):
  - partial perimeter foundation replacement where cracks are severe and beyond repair
  - underpinning of perimeter foundation where cracks are repairable with epoxy injection
  - jacking-and-packing of internal piles.
- [34] We recommend the process of floor re-levelling is to be performance-based. This means the floor levelness is to be restored as level as practicable without causing undue consequential damage to any parts of the dwelling.
- [35] For pricing purposes, we recommend the founding depth for both the new perimeter foundation sections and underpinning pads to be 0.8 metres below ground level according to the shallow geotechnical investigation report.
- [36] Note the proposed floor re-levelling is a conceptual remedial solution only and is not for the purpose of carrying out the actual repairs. Any repair will remain subject to a final design by a chartered professional structural engineer.

| 1 | NHC/2024/123456 | 1 Main Street, Example Town | For Information | Revision A | Page 8 |  |
|---|-----------------|-----------------------------|-----------------|------------|--------|--|
|   |                 | UNCLASSIFIED                |                 |            |        |  |

Figure 136 Structural engineering report (Page 9)

CHUBB.





**TOWER** 

Appendix 4 – Documentation examples

QBE

#### Page 362 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### **Perimeter Foundation Crack Repair**

[37] We recommend the cracks in the perimeter foundation be repaired by a concrete repair specialist upon the completion of floor re-levelling.

#### **Other Repairs**

[38] We recommend all other non-structural repairs are carried by the appropriate trade practices.

#### Approximate Scope of Structural Repairs

| [39] | The approximate scope o | f structural repairs is listed below: |
|------|-------------------------|---------------------------------------|
|      |                         |                                       |

| • | Length of perimeter foundation to be partially replaced | 13.4 lm |
|---|---|---------|
| • | Number of underpinning pads to be installed             | 15 no.  |

Number of piles to be jacked and packed 35 no.

#### Drawings

SK1 Existing Floor Plan with Floor Levels

SK2 Proposed Repair

#### Attachments

Shallow Geotechnical Investigation Report by XYZ Geotechnical Engineers Limited on 22 August 2024

[40] This is a for information report only.

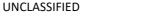
| A |                 | n Smith<br>ons), MEngNZ                       | Jane            | <b>: Doe</b><br>ns), CPEng | _      |
|---|-----------------|---|-----------------|----------------------------|--------|
| 1 | NHC/2024/123456 | 1 Main Street, Example Town  <br>UNCLASSIFIED | For Information | Revision A                 | Page 9 |



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Appendix 4 – Documentation examples





Page 363 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# m. Structural engineering report – floor plan and repair diagrams

The following is an example floor plan and repair diagram, prepared by the structural engineer, which meets the assessor's requirements as set out in their original instructions. This floor plan and diagram would be included with the structural engineering report.

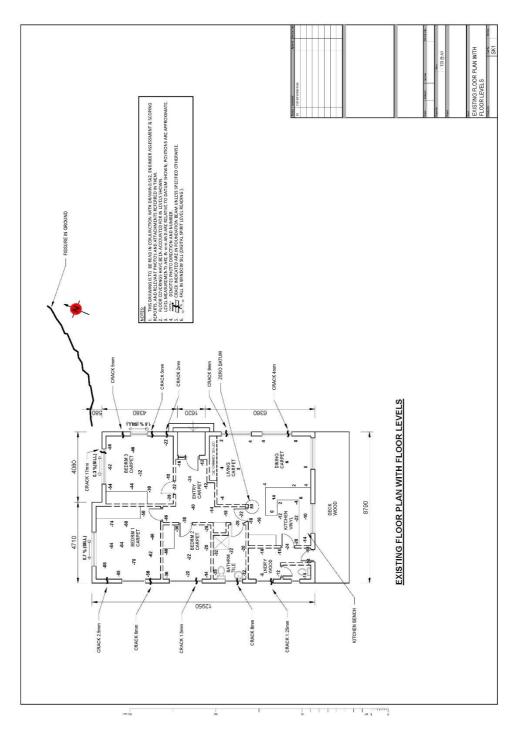


Figure 138 Structural engineering report – existing floor plan with floor levels

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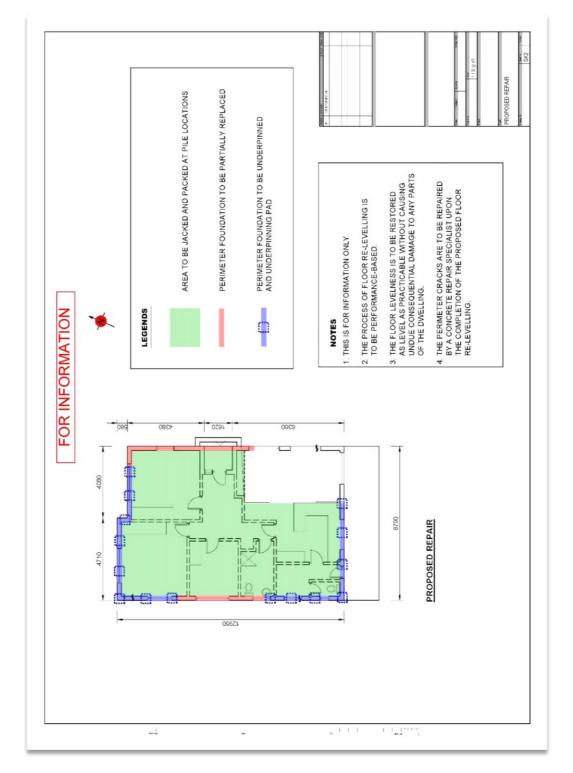


Figure 139 Structural engineering report - proposed repair diagram





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Page 365 of 427 | NHC Assessment Manual – NHI Act



# Appendix 5. Case studies

# a. Introduction

The scenarios below are designed to demonstrate the high-level generic steps taken when assessing a claim for NHCover. The examples are provided for guidance or reference only. In all examples in this appendix, when the claims manager communicates the claim outcome to the customer, they advise the customer (verbally and in writing) of:

- their decision about the validity of the claim
- their settlement decision (where the claim is valid), and
- the customer's rights to refer disputes about referable decisions<sup>142</sup> to the dispute resolution scheme.

NHCover claims will arise in a diverse range of fact situations, and these case studies are not intended to be exhaustive in their coverage.

When assessing a claim for NHCover, you must also:

- comply with all other sections of the NHC Assessment Manual, including sections that address more general matters. These case studies do not go into detail about general matters such as whether any health and safety concerns arise, whether the NHCover claim is valid, and whether the claim needs extra care.<sup>143</sup>
- act in accordance with the <u>NHI Act</u>, all other applicable laws, our delegations and the NHC Insurers Manual.
- apply your organisation's own internal policies and processes.

Where damage is not covered by the NHI Act, you should consider whether it is covered by a private insurance policy. Where damage is covered by both the NHI Act and a private insurance policy, the NHI Act typically covers the first loss, so you should consider the coverage under the NHI Act first. In some cases, damage may not be covered by either the NHI Act or a private insurance policy.

## Example property used for case study examples

The subject property used in the following examples is a 100 m<sup>2</sup> 3-bedroom timberframed house, with separate double garage on an 800 m<sup>2</sup> section, set on a moderate slope towards a coastal cliff face. There are no prior NHCover claims. The basic details of the property are as follows.

<sup>143</sup> For a definition of 'extra care claim' and more information, see our Extra Care Claims Policy.

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<sup>&</sup>lt;sup>142</sup> 'Referable decision' is defined in <u>section 104(6) of the NHI Act</u>. Also, for information on decisions that are not referable decisions, see <u>regulation 17, NHI Regulations</u>.

Page 366 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Age: Circa 1965

Cladding: Brick veneer

Foundation: Concrete perimeter foundation with internal piles

Roof: Concrete tile

Access way: Gravel/metal

Land structures: Two timber pole retaining walls – one supporting the main access way and one supporting the land within 8 m of the dwelling.

# b. Building

# i. No natural hazard damage to the building

a. Natural hazard type: Earthquake

## Claim lodgement and triage

A customer makes a claim for earthquake damage via her insurer's online claim lodgement portal. The customer's lodgement notes state:

I am not really sure when this occurred, but there was a small earthquake two weeks ago. A week later I was doing some gardening on the south side of my house and I saw some cracking to my bricks. I am concerned about rain getting in.

The claims manager who triages the claim observes that there was a magnitude 2.2 earthquake on the notified date of loss, which GeoNet recorded as having light shaking, however this occurred some distance from the property. There was no recent earthquake recorded nearer to the property. After calling the customer and discussing the damage, the claims manager decides it is appropriate for an assessor to attend the property and inspect the damage.

#### <u>Assessment</u>

The assessor reviews the claim and then contacts the customer to discuss the damage. The customer says she is feeling uncertain. She has not identified any other damage, but she would not know where to look. The assessor books a site assessment.

At the site assessment, the customer shows him the damage on the southern side of the property. The assessor can see a clear line of step-cracking from the bottom corner of the window, extending to the south-eastern corner of the dwelling. He identifies moss and debris in the crack. While walking around the exterior, the assessor notes that on this southern side of the property, the ground conditions are very wet.

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#### Page 367 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The customer mentions to him that the ground conditions on the southern side are always boggy, and that it is much drier on the northern and western sides of the property.

The assessor notes that there is a loss of connection where the brick veneer meets the concrete perimeter ring foundation. It is his opinion that the resultant loss of support is the cause of the cracking observed.

The inspection continues in the related internal room, which is a bathroom. The customer says that the room was renovated about two years ago, which included stripping out and replacing all wall linings. The assessor notices that the skirting board in this room is tapered, with the widest part correlating with the external area of the building where the step-cracking to the veneer has occurred. There is also a new vanity in this area. The top of the vanity measures level, however the base has packers wedged under it, indicating pre-existing floor dislevelment at the time of vanity installation, again correlating with the external observations.

The assessor records the damage in a sketch and takes detailed notes of the damage and relevant supporting photographs.

The assessor concludes that the damage is not the result of the earthquake that occurred two weeks before because:

- the severity of the shaking was light in the property's location;
- there is moss and debris in the crack;
- there is evidence of works pre-dating the reported damage to address floor dislevelment and subsidence-based settlement;
- the constantly saturated soils have reduced loadbearing capacity, resulting in a loss of support for the building.

## Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer, and explains that the claims manager will contact her to advise her of the claim outcome once all relevant information has been obtained. The customer accepts and understands the explanations given. She asks the assessor what she might do to repair the damage and prevent further damage. The assessor advises her to engage an appropriate expert, e.g. a Licensed Building Practitioner or geotechnical engineer, to determine the best solution, noting that we would not cover the costs of doing so.



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Appendix 5 - Case studies

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#### Page 368 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



#### Post-site assessment actions

The assessor returns to his office and:

- prepares an assessment report with detailed notes about his observations, supported by his photographs and sketches. A scope of works is not required.
- recommends to the claims manager that the claim is invalid under the NHI Act because there is no natural hazard damage to the residential building.

#### <u>Settlement</u>

The claims manager reviews the assessor's recommendation that the claim be found invalid, and his supporting documents. The claims manager agrees with the assessor's recommendation and on that basis, she contacts the customer to advise her of the claim outcome and explain the reasons for this and then closes the claim.

# ii. Minor building damage (cosmetic damage)

a. Natural hazard type: Earthquake

#### Claim lodgement and triage

A customer makes a claim via his insurer's contact centre for damage to a residential building following a magnitude 4.5 earthquake.

The team member taking the call records the following notes about the property:

The customer has reported that he has noticed cracking around the walls after the earthquake last week. There is no other damage that the customer has noticed but he will have a look before the assessor comes.

A claims manager triages the claim and notes that there has recently been an earthquake in the area where the property is located. He requests an assessor to complete an assessment.

#### <u>Assessment</u>

The assessor reviews the claim and then contacts the customer to discuss the damage and book an appointment to assess the property. The customer states that he has had a good look around the house and has not found any damage other than the cracking he reported. The customer says he will not be able to attend in the next week but advises that he will be available in a fortnight. They arrange a suitable time to meet for the site assessment.

The customer meets the assessor onsite and shows her the damage he is concerned about.

The assessor notes the cracking to the plasterboard wall linings, which appears at

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Appendix 5 – Case studies

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## Page 369 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



window and door openings in four rooms along the southern and eastern sides of the house. She checks the corresponding exterior locations but does not note any additional damage to these areas. The assessor notes that the internal wall lining damage is jagged and sharp as would be expected in an earthquake event. She considers the damage to be natural hazard damage.

The assessor creates detailed notes, sketches and photographs the damage, noting that in three of the damaged rooms the damage is to one wall, while in the fourth it affects two walls. She is careful to note the construction type of the walls, which is plasterboard with a paint finish, to provide enough detail to create a scope of works.

## Post-assessment meeting with customer

The assessor explains the findings of her assessment to the customer. She tells him that:

- the initial assessment indicates that the damage is the result of an earthquake;
- she will create a scope of works, which will include the necessary materials and labour to undertake the repair of the two damaged walls.

The customer expresses dissatisfaction with the remediation strategy. The assessor explains that there is NHCover for the cost to repair the part of the building damaged by the natural hazard which, in this case, is the damaged walls in the rooms. The customer says he understands and accepts this explanation.

The assessor then explains the next steps in the process, i.e. she will recommend to the claims manager that the claim be accepted and cash settled with the appropriate building cover excess<sup>144</sup> deducted.

## Post-site assessment actions

The assessor returns to her office and:

- prepares an assessment report which explains the observed damage, the assessment outcome and the discussions she had onsite with the customer;
- uploads the assessment report and supporting information including photographs and sketches, to the claim file;
- creates a scope of works and sends it for peer review and approval.

The assessor receives approval for the scope of works, then creates a settlement recommendation for the claims manager to review.

# <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and

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<sup>&</sup>lt;sup>144</sup> The 'building cover excess' and 'land cover excess' are defined in the NHI Act. For more information, see Section 0 of this Manual.

## Page 370 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise him of the claim outcome and explain the reasons for this. The claims manager advises the customer that if he finds further damage, additional repairs are required, or the cost of the repairs is greater than was estimated, he should get back in contact. The claims manager then arranges payment and closes the claim.

# iii. Moderate building damage (structural damage)

# a. Natural hazard type: Earthquake

# Claim lodgement and triage

The customer makes a claim via their insurer's contact centre for damage to a residential building following a magnitude 5.2 earthquake. The customer reports the following, which is noted on the file:

- The floors are sloping and feel 'springy'
- There are cracks in all the internal walls

The claims manager assigns the claim to an assessor for review.

# <u>Assessment</u>

The assessor reviews the claim and then books an appointment to attend the property with the customer. On arrival at site, the assessor and the customer complete a walkthrough together. The customer points out the sloping floors inside and the damage to the walls.

The assessor can immediately identify that the damage to the wall linings is structural, with long diagonal cracks spanning from the corner opening up towards the ceilings, as well as cracking to some ceiling linings. He observes that the slope to the floor is noticeable towards the southwest corner of the building. There is no access to the subfloor for internal foundation investigations.

The exterior of the building has cracking to the concrete perimeter foundation ranging from 5 to 25 mm wide, the location of which corresponds with the internal sloping floors. The brick cladding has step cracking spanning out from the window openings on the south and west elevations. On closer inspection, the assessor establishes that the cladding at the western end of the southern elevation is no longer mechanically connected to the building superstructure.

On this southwestern corner is a gully trap that household greywater discharges into. The gully trap has sunk and there is greywater discharging onto the section.

The assessor records the damage in a sketch and takes detailed notes of the damage and relevant supporting photographs.

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## Page 371 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



It is apparent to the assessor that a structural engineer's assessment will be required to confirm the cause of the damage and determine an appropriate remediation strategy.

#### Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer. The assessor advises the customer that, due to the nature of the damage, a site-specific engineer's assessment will be required to confirm the extent of the damage.

The assessor also takes the opportunity to explain the remainder of the assessment process, building cover excess and settlement process.

#### Assessor's post-site assessment actions

The assessor returns to his office and:

- prepares an assessment report with detailed notes about his observations and supported by his photographs and sketches;
- requests that a structural engineer attend the property and prepare a report on their findings. They provide the engineer with a letter of engagement and a copy of their assessment report;
- notifies the claims manager of the claim's progress.

#### Structural engineer's assessment

The structural engineer receives the letter of engagement and agrees to the terms and conditions. He then contacts the customer and arranges a suitable time to assess the dwelling.

The structural engineer reviews the report provided by the assessor and then completes a site inspection. He takes detailed notes, measurements and photographs of the damage observed, including a floor level survey of the building.

The structural engineer completes a report which identifies the following damage to the building as the direct result of natural hazard:

- Significant floor dislevelment as a result of foundation damage at the southwestern corner of the building;
- Localised pile settlement in two other areas of the house (the lounge and dining room on the northern side of the house);
- 4 m<sup>2</sup> of brick veneer that is not mechanically connected back to the wall framing;
- 6 LM of step cracking to the brick veneer on the southern and western sides of the building;
- Structural damage to walls and linings in three rooms on the southern and western side of the building;
- Cosmetic damage to wall linings in four rooms on the northern and eastern side of the house;

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Appendix 5 – Case studies

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## Page 372 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



• Settlement of the gully trap (services) resulting in the greywater disposal pipe becoming disconnected.

He completes his reporting by recommending the following conceptual repair strategies:

- Rebuild of the foundation at the southwestern corner, by lifting the flooring in the affected rooms and replacing it, repairing the piles as required, replacement of 5 LM of concrete perimeter foundation and tying back into the existing foundation;
- Localised pile replacement in the lounge and dining room;
- Replacement of the wall linings in the three rooms on the southern and western elevation (engineer confirms these are not bracing elements);
- Removal and reinstatement of the 4 m<sup>2</sup> damaged brick veneer on the southern elevation;
- Repointing the damaged brick veneer affected by step cracking;
- Reconnection of the greywater disposal pipe to the greywater gully trap.

The structural engineering report states that the final foundation remediation strategy remains subject to a shallow geotechnical investigation report being obtained, and the repair must comply with the requirements of the building code as outlined in the Building Act 2004.

The structural engineer sends his report to the assessor for review and approval.

## Assessor's next actions

The assessor reviews the structural engineering report and confirms that no points require clarification. The assessor then:

- notifies the claims manager that the structural engineering report is completed and that they can provide the customer with a claim status update, including a copy of the structural engineer's report;
- completes a scope of works as specified by the structural engineer;
- submits the scope of works for peer review and approval by a Licensed Building Practitioner (because the remediation strategy includes restricted building work).

The assessor receives approval for the scope of works, then creates a settlement recommendation for the claims manager to review.

# <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise them of the claim outcome and explain the reasons for this. The claims manager advises the customer that if they find further damage, additional repairs are required, or the cost









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#### Page 373 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



of the repairs is greater than was estimated, they should get back in contact. The claims manager then arranges payment and closes the claim.

# iv. Severe building damage (structural damage)

a. Natural hazard type: Earthquake

# Claim lodgement and triage

A customer makes a claim via her insurer's contact centre for damage to a residential building following a magnitude 6.3 earthquake. The customer reports the following, which is noted on the file:

- The floors are sloping
- o Some of the bricks have fallen off outside
- Doors are jamming
- There are cracks in all the internal walls and the damage seems quite severe
- o The customer considers the house is safe to occupy

The claims manager updates the site hazard details on the claim and then assigns the claim to an assessor for review.

## <u>Assessment</u>

The assessor reviews the claim and then books an appointment to attend the property with the customer. On arrival at site, the assessor notes the fallen exterior bricks and cracking to the concrete perimeter foundation. He takes a moment to consider the site hazards he has observed, updates his site risk assessment and determines that he can continue his assessment safely. He meets the customer and they complete a walkthrough of the property together. The customer points out the sloping floors inside and the damage to the walls.

Externally, there is cracking damage to the concrete perimeter foundation on all elevations ranging from minor cracking less than 5 mm wide to severe cracking of more than 20 mm width. There are significant portions of the brick cladding that have either collapsed or show signs of instability.

Internally, the floor is on a noticeable slope across the entire dwelling in a southwestern direction. Many of the internal doors no longer close properly, with signs of new misalignment on the striker plates and no indicators of sustained misalignment. In the southwestern corner, where the floor slope is most noticeable, the windows cannot be opened. The customer reports that these were operating properly before the earthquake. There is diagonal cracking indicating structural damage to the wall linings in most rooms. There is no access to the subfloor for internal foundation investigations.

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Appendix 5 – Case studies

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#### Page 374 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



Several stormwater connections have failed, and stormwater now discharges directly onto the ground surrounding the dwelling, but the assessor considers it is not unsafe.

The assessor records the damage in a sketch and takes detailed notes of the damage and relevant supporting photographs.

## Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer. The assessor advises the customer that, due to the nature of the damage, a site-specific engineer's assessment will be required to confirm the extent of the damage. He discusses his findings with the customer and lets her know about urgent works she should consider undertaking, e.g. placing plywood on the exterior to secure the loose bricks and engaging a plumber to connect a temporary stormwater supply.

The assessor also takes the opportunity to explain the remainder of the assessment process, the building cover cap<sup>145</sup>, building cover excess and settlement process, and also any relevant information regarding their private insurance claim.

## Post-site visit actions

The assessor returns to his office and:

- prepares an assessment report with detailed notes about his observations and supported by his photographs and sketches;
- requests that a structural engineer attend the property and prepare a report on their findings. They provide the engineer with a letter of engagement, a copy of their assessment report and authority to engage a geotechnical engineer to provide a shallow geotechnical investigation report if the structural engineer determines it is necessary;
- notifies the claims manager of the claim's progress.

## Structural engineer's assessment

The structural engineer receives the letter of engagement and agrees to the terms and conditions. He then contacts the customer and arranges a suitable time to assess the dwelling.

The structural engineer reviews the report provided by the assessor and then completes a site inspection. He takes detailed notes, measurements and photographs of the damage observed, including a floor level survey of the building. He determines that a shallow geotechnical investigation report is required and engages a geotechnical engineer accordingly.

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<sup>&</sup>lt;sup>145</sup> The 'building cover cap' and 'land cover cap' are defined in the NHI Act. For more information, see Section 0 in this Manual.

#### Page 375 of 427 | NHC Assessment Manual – NHI Act



The structural engineer completes a report which identifies the following damage to the building as the direct result of natural hazard:

- Foundation damage spanning the entire building resulting in floor dislevelment of 110 mm across the entire building, including:
  - cracks ranging from 5 to 25 mm in the concrete perimeter foundation; and
  - apparent tilting of all piles (viewed through vents) and failure of all connections to bearers;
- Cladding detachment to the southern, western and northern elevations;
- Step cracking to the brick veneer on the eastern elevation;
- Structural damage to all wall linings indicated by severe diagonal cracking;
- Plumbing and stormwater connection failures.

He completes his reporting by recommending the following repair strategies, supported by the geotechnical engineering advice he obtained:

- Lifting the dwelling and replacing the concrete perimeter foundation and all piles;
- Replacing all wall linings and the affected ceiling linings;
- Reinstating the cladding on all elevations;
- Easing doors and windows;
- Reinstating all damaged services.

The structural engineering report states that any foundation damage must be repaired as per the requirements of the building code as outlined in the Building Act 2004.

The structural engineer sends his report to the assessor for review and approval.

#### Assessor next actions

The assessor reviews the structural engineering report and confirms that no points require clarification. The assessor then:

- notifies the claims manager the engineering report is completed and that he can provide the customer with a claim status update, including a copy of the engineering report;
- reviews the claim file and confirms with the customer that no urgent works have been carried out;
- completes a scope of works as specified by the structural engineer;
- submits the scope of works for peer review and approval by a licensed building practitioner because the remediation strategy includes restricted building work.

The assessor receives approval for the scope of works, then creates a settlement recommendation for the claims manager to review.

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#### Page 376 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The final costed amount is \$337,500 (incl. GST). The assessor makes the claims manager aware of the complex and variable nature of the works, so he can advise the customer.

#### <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this. The claims manager advises the customer that if she finds further damage, additional repairs are required, or the cost of the repairs is greater than was estimated, she should get back in contact. The claims manager then arranges payment and closes the claim.

#### Works planning

The customer engages a project manager and provides them with the scope of works received with her claim payment to start the planning phase. During this process, the customer receives all quotes for the required works, and the total quoted amount is \$349,000 (incl. GST).

The customer contacts the claims manager and advises that the repairs are going to cost more than the cost estimate, and sends the relevant information supporting this for the claims manager to consider.

#### Claim re-open and assessment

The assessor receives the claim file and reviews the supporting documents. He agrees the additional costs are reasonable. He submits the costs for peer review and recommends they be approved.

The assessor receives approval for the increase in costs, then creates a settlement recommendation for the claims manager to review. He recommends that the additional costs should be accepted because they would be reasonably incurred in repairing the natural hazard damage that has occurred. He notes that this claim will now exceed the building cover cap.

The assessor recommends the NHCover building claim entitlement be paid to the building cover cap and the remaining damage be settled under the customer's private insurance claim, and contacts the claims manager to advise of this outcome.









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#### Page 377 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



## Second settlement

The claims manager reviews the assessor's revised settlement recommendation and supporting documents. He agrees with the assessor's recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this. The claims manager then arranges the additional payments and closes the claims.

# v. Total loss of building

# Claim lodgement and triage

A magnitude 7.1 earthquake occurs, resulting in severe and widespread damage to the lower North Island. The customer attends her insurer's office to report damage to her property. She sits down with a claims manager, who opens claims for damage covered by the NHI Act and damage covered by their private insurance and records the following concerns:

- The local TA has issued an unsafe building notice<sup>146</sup> under section 124 of the Building Act 2004 on the property, meaning the building is too dangerous to enter.
- The building has moved from its foundation.
- The concrete tile roof has had almost all of the concrete tiles displaced.
- The brick chimney has collapsed into the dwelling itself resulting in severe damage to walls and floors linings.
- Most of the external bricks on all walls have fallen off.
- The asphalt driveway is severely cracked.

The customer has a copy of the unsafe building notice that restricts entry to the interior of the building. The property can still be accessed, meaning the building can be viewed externally.

The claims manager consults with an assessor and they agree that the property needs a priority assessment. They arrange a site assessment for the following day, and the claims manager advises the customer that they will assess the damage for both their NHCover and private insurance claims.

## <u>Assessment</u>

The customer meets the assessor onsite and accompanies him on his site assessment because it is safe for her to do so. Because there is a restriction on entry into the building, the assessor conducts his assessment externally only, in accordance with his site risk assessment and considering the health and safety issues.

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<sup>&</sup>lt;sup>146</sup> These notices are also commonly referred to as 'placards' or 'stickers'. We have used the term 'unsafe building notice' within this section.

#### Page 378 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The assessor creates detailed notes, sketches and photographs, recording the following:

- There is structural damage to concrete perimeter foundation.
- Upon exterior inspection of the dwelling subfloor (where possible), all visible timber piles have either failed completely or are rotated to a position where they no longer provide support to the building's subfloor framing.
- Timber wall framing has partially detached from the roof structure and can no longer support the roof weight.
- Interior wall linings in all rooms (able to be safely viewed through windows) have suffered structural damage.
- Power and water connections have been damaged.
- All glazing elements have been damaged and require replacement.

The assessor does not identify any visible land damage.

The severity of the damage means that a complete rebuild is likely to be required and the cost to repair will exceed the building cover cap.

Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer. He also explains:

- that he will recommend that the NHCover claim be cash settled to the building cover cap, subject to the claims manager's approval;
- that he will recommend that the remaining damage covered by their private insurance claim also be cash settled, subject to the claims manager's approval;
- the expected timeframe for the claims manager to contact her and confirm the settlement outcome.

## Post-site assessment actions

The assessor returns to his office and:

- prepares an assessment report which details all aspects of his site assessment and his recommendation that the dwelling is a total loss.
- uploads the assessment report and supporting information, including photographs and sketches, to the claim file;
- creates a scope of works which confirms the repair cost exceeds the building cover cap, and sends it for peer review and approval.

The assessor receives approval for the scope of works, then creates a settlement recommendation for the claims manager to review, which is that the claim should be accepted because the damage observed is the result of a natural hazard covered by the NHI Act, and that this claim will exceed the building cover cap.

Because this is a total loss scenario, the assessor does not need to carry out a full

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## Page 379 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



scope of works costing to determine that the building claim will exceed the building cover cap. However, he has obtained the information needed for him to carry out a full costing for the customer's private insurance claim (which would allow for afterthe-fact scoping of the works required to meet coverage under the NHI Act).

#### <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this.

The claims manager advises the customer that because there is a mortgage on the record of title, and the building claim entitlement is over the relevant mortgagee cap, the claim payment will need to be made to the mortgagee. The claims manager checks that the customer understands the next steps that she needs to take, then arranges payment to the mortgagee and closes the claim.









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Page 380 of 427 | NHC Assessment Manual – NHI Act

No natural hazard damage to the land

Version as at **13/5/2025** 



# c. Land

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# PLAN SKETCH OF PROPERTY (identify each room, indicate damage). Attach photo if available Street Name metors Druge und 1 HULLES 1 1 Boundary T Main Indea NG aunge 3 10. X FACE Fact Bundan Cliff Additional Information ---- = 8m around duelling & garage = Block RTW = Damage to briefde abutment = fallen tree outside insurced land = 60m from garage

a. Natural hazard type: Storm

Figure 140 Site sketch with no natural hazard damage to the land

Claim lodgement and triage

After a severe storm event, a customer makes a claim via their insurer's web lodgement portal. The lodgement note states:

The bridge at the front of my property was damaged in last week's cyclone.

A claims manager reviews the file and calls the customer. The customer says that the bridge abutment has been undermined, causing one end to drop slightly. The bridge

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Appendix 5 – Case studies













## Page 381 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



is approximately 40 m from the dwelling and forms part of the main access way. However, the bridge is situated outside the property boundary on council land. After speaking with the customer and discussing the damage, the claims manager determines it is appropriate for an assessor to attend the property and inspect the damage.

#### Assessment

The assessor reviews the claim file and then calls the customer and books an appointment time to assess her property.

When preparing for this assessment, the assessor has obtained an aerial plan from the local TA's geographic information system (GIS) file that supports the customer's comments about the location of the bridge and its distance from the dwelling. As the bridge is situated outside of the property boundary, the assessor asks the claims manager to check:

- the record of title for any easements that would extend the insured person's land to include the neighbouring TA-owned land where the bridge is situated; and
- if the local council has a vehicle crossings bylaw which imposes repair obligations on the customer for the bridge.

The claims manager:

- reviews the title and confirms there is no easement of any type on it, and
- confirms there is no local council vehicle crossings bylaw.

When the assessor arrives on site, the customer meets him at the bridge and shows him the damage. The assessor takes detailed notes of his observations, prepares a land sketch and takes relevant supporting photographs.

The assessor then asks the customer whether she is aware of any other damage on the property. The customer mentions that a tree fell over behind the house from the strong winds but says she did not think trees were covered under the NHI Act. The assessor confirms that although the tree itself is not covered, if it has fallen onto land that is insured under the NHI Act, the tree may be considered debris that is inundating insured land. In this case, we may provide cover for the inundated land area. The assessor asks to inspect the tree to determine whether there is cover in this case.

The customer shows the assessor the tree and takes the assessor around the property to check for any other land damage. During his walkthrough, the assessor identifies no other land damage except for the inundation debris (the tree) and updates his land sketch with the extent of this damage and its location in relation to the dwelling and appurtenant structures. He takes photographs of the debris and

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## Page 382 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



makes detailed notes of his observations. He measures and records the distance from the debris to the nearest insured residential building (the dwelling), and establishes that there is no debris within 8 m of the building.

#### Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer. He says the claims manager will contact her to advise her of the claim outcome once they have considered all relevant information.

He explains that although the bridge is part of the main access way and within 60 m of the dwelling:

- the whole bridge is outside the customer's property boundary; and
- there is no easement that extends her insured land area to include the bridge.

He advises that the bridge may be covered if the customer can provide information that shows she has an insurable interest in it. An example would be a contract with the council that sets out her repair and maintenance responsibilities for the bridge.

The customer confirms that she does not have a contract with the council or any other evidence of an insurable interest in the bridge.

He explains that although the tree is debris inundation, it is more than 8 m from the dwelling or any appurtenant structure. This means it has not damaged any insured land areas.

The assessor advises the customer that he will recommend that the claim be closed as invalid. He explains that this is based on his findings that all land damage has occurred outside of the land areas that are insured under the <u>NHI Act</u>. The assessor also explains that the customer's private insurance policy does not provide cover for the bridge.

The customer expresses disappointment but indicates that she understands the reasons.

## Post-site assessment actions

The assessor returns to his office and:

- prepares an assessment report with detailed notes about his observations supported by his photographs and sketches. A scope of works is not required.
- recommends to the claims manager that the claim is invalid under the NHI Act because there is no natural hazard damage to the insured residential land. The damage has occurred outside the insured land areas.

## <u>Settlement</u>

The claims manager reviews the assessor's recommendation that the claim be found invalid, and his supporting documents. The claims manager agrees with the

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#### Page 383 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



assessor's recommendation and on that basis, he contacts the customer to advise them of the claim outcome and explain the reasons for this and then closes the claim.

# ii. Minor land damage

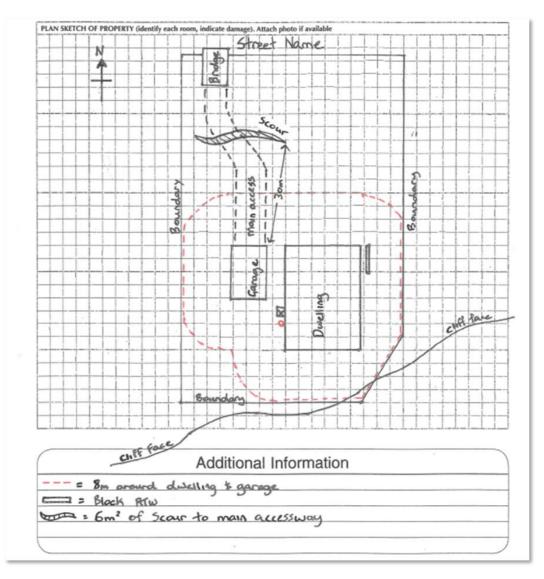


Figure 141 Site sketch with minor land damage

a. Natural hazard type: Storm

#### Claim lodgement and triage

Following an overnight storm, the customer makes a claim via his insurer's web lodgement portal. The lodgement note states:

We had a lot of water flowing off the neighbour's hill during last night's storm and this morning we've realised that part of our driveway has been washed out. We have a 4WD truck so can still get in and out of our property.

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Appendix 5 - Case studies











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## Page 384 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The team member assigns the claim to a claims manager who calls the customer. The customer reiterates to her the damage described above. The claims manager asks the customer if he has any other property damage, e.g. a shed or garage that may have been flooded. The customer he says he doesn't think so, but he is not sure. The claims manager arranges an assessment.

#### Assessment

The assessor reviews the claim file and then calls the customer and books a suitable time to assess the property.

The assessor arrives at the property and parks on the street. She takes care as she walks up to the house, noting the recent scouring damage on the gravel/metal driveway. She meets the customer at the house and they go to inspect the damage together.

The assessor confirms that heavy rainfall during the storm has caused surface water to flow off the neighbouring hill, west of the customer's property, and onto their main access way. This has caused scouring damage to an approximate 2 m wide section of the gravel/metal driveway, approximately 30 m from the detached garage situated on the west side of the dwelling.

The assessor measures the total area of land that has been scoured and notes that it extends beyond the insured land areas onto the front lawn. She takes detailed notes and photographs of the damage and creates a land sketch, carefully recording all relevant aspects of the property, all the land damage, the insured land areas and land structures. She also measures the land damage that is within the insured residential land at 6 m<sup>2</sup>.

The customer agrees to show the assessor around the rest of the property to check for any other possible storm damage. They do not find any further damage. Based on her observations and the damage that has occurred (i.e. scour damage from a storm) the assessor is confident that there is no imminent damage risk. Because there are also no damaged land structures, she decides not to engage a geotechnical engineer.

# Post-assessment meeting with the customer

The assessor explains the findings of her assessment to the customer. She also explains:

- that she considers the scouring of the main access way is the result of natural hazard (storm) damage;
- the remediation strategy to fix the damage to the driveway (an insured land area);
- that she will be preparing a costed scope of works upon returning to the office;
- the basis of settlement, i.e. the land claim entitlement will be either the value of the damaged land (6 m<sup>2</sup>) or the cost to repair that land, whichever is the lesser

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## Page 385 of 427 | NHC Assessment Manual – NHI Act



amount (however, she explains that she is unable to say which basis she will make her recommendation on until she has completed the scope of works);

• that if a property-specific valuation is required, a registered valuer will be in contact with him to arrange a suitable time to visit the property.

The assessor also takes the opportunity to explain the remainder of the assessment process, the land cover cap<sup>145</sup>, land cover excess<sup>144</sup> and settlement process.

## Assessor's post-site assessment actions

The assessor returns to her office and:

- prepares an assessment report with detailed notes about her observations and supported by her photographs and sketches;
- completes her scope of works and submits it for peer review and approval;
- determines that a valuer is not required because the land can be valued using a 'notional' land value<sup>147</sup>, and carries out the process to obtain this valuation;
- notifies the claims manager of the claim's progress.

# Assessor final actions

The assessor's costed scope of works for the remediation strategy has been approved. The assessor then creates a settlement recommendation for the claims manager to review. The assessor recommends that the claim be settled on the basis of reinstatement cost because the scope of works reinstatement cost estimate of \$850 is less than the notional land value of \$1200.

## <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. She agrees with the assessor's recommendation and on that basis, contacts the customer to advise him of the claim outcome and explain the reasons for this.

The claims manager advises the customer that:

- she obtained a valuation for the damaged land from a valuer;
- if the customer finds further damage, additional repairs are required, or the cost of the repairs is greater than was estimated, he should get back in contact.

The claims manager then arranges payment and closes the claim.

Settlement calculation

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<sup>&</sup>lt;sup>147</sup> See <u>NHC Claims Manual – Residential Land, Section 7.A.d Assessing the Relevant Land Values</u>.

#### Page 386 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Claim item                                       | Repair<br>estimate* | Valuation | Settlement<br>amount |
|--|---------------------|-----------|----------------------|
| Land scour                                       |                     |           |                      |
| Evacuation – main access way (6 m <sup>2</sup> ) | \$850               | \$1200    | \$850                |
| Sub-total  | \$850               | \$1200    | \$850                |
| Less land cover excess                           |                     |           | \$500                |
| Total land claim entitlement                     |                     |           | \$350                |

\*Basis of settlement

# iii. Moderate land damage

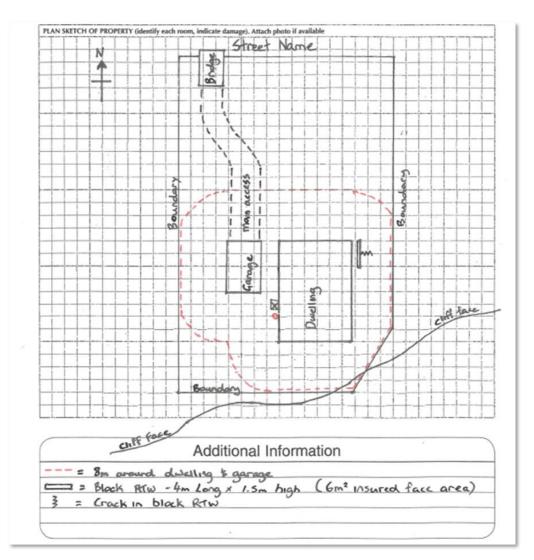


Figure 142 Site sketch of moderate land damage

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#### a. Natural hazard type: Earthquake

#### Claim lodgement and triage

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Appendix 5 - Case studies









#### Page 387 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



A customer makes a claim for earthquake damage via her insurer's online claim lodgement portal. The customer's lodgement notes state:

> I am not really sure when this occurred, but there was a small earthquake 2 weeks ago. A week later, I was doing some gardening on the east side of my house and I saw some cracks in my retaining wall. I am concerned as this wall holds up part of my home.

A claims manager triages the claim and notes that a magnitude 5.2 earthquake occurred approximately 30 km from the property location. GeoNet recorded the shaking as moderate. The claims manager contacts the customer, discusses the damage and confirms that the damaged retaining wall appears to be within NHCover insured land areas. The claims manager decides it is appropriate for an assessor to attend the property and inspect the damage.

#### <u>Assessment</u>

The assessor reviews the claim file and then phones the customer to discuss the damage. The customer says she has looked around the property with a builder friend and she is reasonably certain that there is no damage beyond what she has already reported. The assessor books a site assessment.

The customer meets the assessor at the property and shows him the damaged retaining wall near to, and on the eastern side of, the dwelling. The assessor can see a fresh crack in the blockwork that forms the retaining wall which is within the insured land areas. Although the retaining wall runs parallel with the dwelling and is situated approximately 200 mm off the foundation line, there are no visible mechanical connections between the retaining wall and the dwelling.

The assessor considers that the damage is new because of the lack of weathering to the faces of the crack, the sharpness of the edges of the crack, and the lack of debris within the crack.

The assessor checks the interior of the dwelling and is satisfied that there is no visible damage to the building associated with the retaining wall damage. He checks the subfloor to assess the ground immediately behind the retaining wall and does not detect any visible issues. He checks the concrete perimeter foundation of the dwelling and does not find any damage.

The assessor records the damage in a land sketch and takes detailed notes of the damage and relevant supporting photographs.

Based on his assessment, the assessor concludes that the damage is the result of the earthquake that occurred two weeks ago because:

• the severity of the shaking was moderate in the property location;

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Appendix 5 – Case studies

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#### NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

#### Page 388 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- there is no evidence of weathering in the crack;
- the edges of the crack are sharp;
- there is no debris in the crack.

The assessor determines a geotechnical engineer is required to:

- quantify the extent of the damage;
- confirm that the damage is a direct result of the natural hazard that has been claimed for (earthquake);
- advise on any imminent damage to insured residential land and/or the residential building; and
- provide a conceptual remediation strategy for the damaged insured land structure and estimate for relevant professional and compliance fees.

Because of the retaining wall's proximity to the dwelling, the assessor also asks the geotechnical engineer to confirm that the retaining wall is not mechanically connected to the dwelling.

## Post-assessment meeting with customer

The assessor explains the findings of his assessment to the customer along with:

- the next steps;
- expected time frames;
- land cover excess amount; and
- imminent damage considerations.

The customer asks some questions about what she might do to repair the damage. The assessor recommends that she wait until the geotechnical engineer assesses the property to allow him to make an accurate assessment.

The assessor also takes the opportunity to explain the remainder of the assessment process, the land cover cap, land cover excess and settlement process.

## Post-site assessment actions

The assessor returns to his office and:

- finishes the site inspection documents, including preparing an assessment report with detailed notes about his observations and supported by his photographs and sketches;
- requests that a geotechnical engineer attend the property and prepare a report on their findings;
- notifies the claims manager of the claim's progress.

## Geotechnical engineer investigations and site assessment

The engineer receives the request and contacts the customer to arrange a time to assess the damage.

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## Page 389 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



She attends the site and the owner directs her to the damaged retaining wall. The engineer determines that the crack in the retaining wall is the direct result of the earthquake as claimed, and quantifies the full extent of the damage and the total insured face area of the retaining wall.

Because the crack is less than 3 mm wide, the engineer proposes an epoxy injection as a conceptual remediation strategy that restores the functionality of the retaining wall. She determines that there is no imminent damage.

After attending site, the engineer requests the property file from the local TA to confirm whether the retaining wall is mechanically connected to the dwelling. She finds that the retaining wall was constructed approximately 12 years before and was consented. She also confirms that the retaining wall is not mechanically connected to the dwelling.

The engineer documents her findings in a draft report and sends it to the assessor for review. The assessor reviews her report and confirms that no points require clarification. The engineer finalises her report and uploads it to the claim file for use by the claims manager and assessor.

| Yes          |
|--------------|
| (Earthquake) |
|              |
| Nil          |
|              |
| Nil          |
| Nil          |
|              |
| Nil          |
| Nil          |
| Nil          |
| Nil          |
|              |
|              |
| Nil          |
| Nil          |
|              |
| Nil          |
| Nil          |
|              |
|              |

Geotechnical engineer's summary of information (engineering report)

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Appendix 5 - Case studies

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Page 390 of 427 | NHC Assessment Manual – NHI Act



|  | Nil               |
|--|-------------------|
| Retaining walls within 60 m of the residential building<br>(dwelling or appurtenant structure) supporting or protecting<br>the residential building or insured land areas. | Yes               |
| Timber pole retaining wall – 225 mm SED timber poles at 1 m  |                   |
| centres (retaining wall 1):  |                   |
| Whole wall length  | 10 m              |
| Retained height  | 1.5 m             |
| Damaged (insured face area)  | 2 m <sup>2</sup>  |
| Imminent damage (insured face area)  | Nil               |
| Insured wall (face area)   | 15 m <sup>2</sup> |
| Total wall (face area)   | 15 m <sup>2</sup> |
| Dwelling and appurtenant structure(s)  | n/a               |
| Has the dwelling or appurtenant structure been damaged as a  |                   |
| direct result of the natural hazard?   | No                |
| Cost to repair natural hazard damage   | n/a*              |
| Is there imminent damage to the dwelling (or appurtenant   | No                |
| structure) as a direct result of the natural hazard?   |                   |
| Cost to remove the risk of imminent damage   | n/a               |
| to dwelling (or appurtenant structure)   |                   |
| Cost to repair imminent damage to dwelling (or appurtenant   | n/a*              |
| structure) if it were to occur   |                   |
| Insured Service infrastructure   | n/a               |
| Insured bridges or culverts  | n/a               |
| Conceptual remediation strategy  |                   |
| Reinstate damage and remove risk of imminent damage to insured   | Nil +             |
| retaining wall by injecting epoxy into 2 m length hairline crack in  | constructio       |
| retaining wall 1.  | costs*            |
|  | (excluding        |
|  |                   |

\*To be assessed by an NHC cost estimator

Assessor next actions

The assessor:

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#### Page **391** of **427** | **NHC Assessment Manual – NHI Act**

Version as at 13/5/2025



- notifies the claims manager that the finalised engineering report has been uploaded to the claim file;
- asks the claims manager to provide the customer with a copy of the engineering report and a claim update;
- calculates the undepreciated value of the damaged retaining wall as quantified in the engineering report and submits it for peer review;
- completes his scope of works and submits it for peer review and approval, based on the engineer's recommended remediation strategy.

The claims manager contacts the customer to:

- update her on the progress of her claim;
- explain the engineer's findings;
- arrange to provide her with a copy of the report; and
- advise what will happen with her claim next.

The assessor calculates the undepreciated value for the damaged retaining wall using market rates from the date the damage occurred, based on information provided in the geotechnical engineering report. The assessor costs the undepreciated value of the retaining wall at \$24,000.

Because the only damage is to an insured land structure, the assessor does not engage a valuer.

# Assessor final actions

The assessor's costed scope of works for the engineer's conceptual remediation strategy has been approved. The reinstatement cost is estimated at \$1560.13. The assessor compares the estimated reinstatement cost to the undepreciated value of the damaged retaining wall. Because the reinstatement cost is less than the undepreciated value (and the applicable limit of \$50,000 + GST<sup>148</sup>), in accordance with section 39 of the NHI Act, the assessor recommends to the claims manager that the claim be settled on the reinstatement cost, minus the applicable land cover excess of \$500.

## Settlement calculation

| Claim item               | Repair<br>estimate* | Undepreciated<br>Value | Settlement<br>amount |
|--------------------------|---------------------|------------------------|----------------------|
| Land structure           |                     |                        |                      |
| Retaining wall 1 (RTW 1) | \$1560.13           | \$24,000               | \$1560.13            |

<sup>148</sup> The applicable limit is calculated by the number of dwellings (one) in the residential building multiplied by \$50,000 + GST. See <u>Section 43 of the NHI Act</u>.

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#### Page **392** of **427** | **NHC Assessment Manual – NHI Act**

Version as at 13/5/2025



| Claim item                                | Repair<br>estimate* | Undepreciated<br>Value | Settlement<br>amount |
|---|---------------------|------------------------|----------------------|
| Sub-total                                 | \$1560.13           | \$24,000               | \$1560.13            |
| Less land cover excess (\$500<br>minimum) |                     |                        | \$500                |
| Total land claim entitlement              |                     |                        | \$1060.13            |

\*Basis of settlement

#### **Settlement**

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this. The claims manager advises the customer that if she finds further damage, additional repairs are required, or the cost of the repairs is greater than was estimated, she should get back in contact. The claims manager then arranges payment and closes the claim.







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Page 393 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# iv. Severe land damage

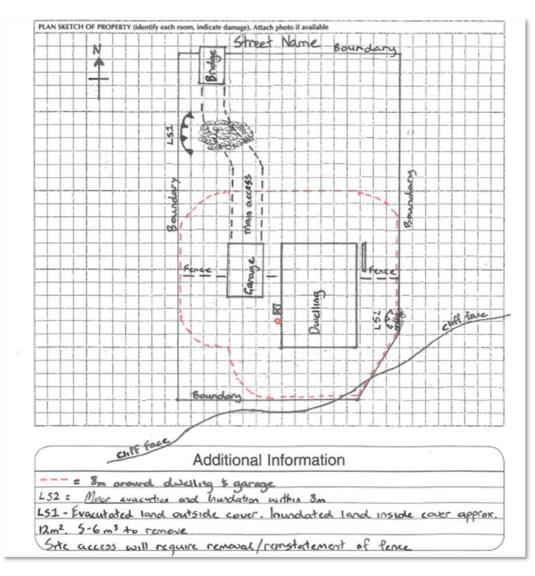


Figure 143 Site sketch of severe land damage

#### a. Natural hazard type: Landslide

#### Claim lodgement and triage

A customer calls her insurer's contact centre to make a claim. She reports that she can no longer access the property because her access way is blocked by debris.

The team member taking the call asks about the damage and the location and makes the following notes:

- The customer cannot access her property as a large landslide has occurred and mud and rocks are all over the driveway. The mud is approximately 0.5 m high and covers the entire width, and a 4 m length of, the driveway.
- There is another landslide on the other side of the house probably about 2 m away.

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## Page 394 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



• The customer is very anxious as she has a disabled grandchild who stays one week per month for respite care. With the current access situation, she will be unable to provide this support to her family.

Once the claim lodgement process is finished, the contact centre representative escalates the claim to a claims manager because the customer's circumstances indicate that it may need extra care.

The claims manager reviews the file and contacts the customer to explain the claims process and discuss what extra care responses she would find helpful. The claims manager explains the urgent works process and suggests that the customer may wish to consider arranging the removal of debris from her driveway to restore access to her home. He then assigns the claim to an assessor and follows up with a phone call to confirm they can carry out a priority assessment.

#### <u>Assessment</u>

The assessor reviews the claim file and other relevant property information, such as an aerial plan of the property, noting relevant details, e.g. property boundary. He then calls the customer to confirm a suitable time to assess the property damage, acknowledging the customer's circumstances and the extra care responses she has agreed with her claims manager.

The assessor arrives at the property and notes the access way remains blocked with inundation debris. He updates his site risk assessment and, having confirmed it is safe to enter the property, the assessor meets with the customer. The customer points out the areas of concern and the assessor confirms the following damage:

- Landslide 1:
  - o Inundation of the main access way within 60 m of the dwelling
  - Evacuation of land outside the insured land areas
- Landslide 2:
  - $\circ~$  Evacuation of land within 8 m of the dwelling
  - Inundation within 8 m of the dwelling

The assessor records the damage in a land sketch and takes detailed notes of the damage and relevant supporting photographs.

The assessor also notes that any potential repair to this property will require heavy machinery and there will be site access issues. He records details of an undamaged side fence that would need to be removed to provide the necessary site access.

## Post-assessment meeting with customer

Because of the complexity of the damage, the assessor takes time with the customer to explain the findings of his assessment. He advises her that:

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#### NHI Act – For claims made in relation to initial damage from natural hazards occurring **on or after** 1 July 2024

## Page 395 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



- some of the damage falls within the insured land areas covered by the NHI Act;
- a geotechnical engineer is required to attend the site for further claim investigations and report on their findings, including:
  - o confirming natural hazard damage has occurred;
  - quantifying the damage that has occurred (including any imminent damage);
  - o quantifying what damage has occurred within the insured land areas;
  - providing a conceptual remediation strategy for the damage that has occurred within the insured land areas, which would also remove any risk of imminent damage;
- he (the assessor) will then prepare a scope of works for the conceptual remediation strategy provided in the geotechnical engineering report and engage a valuer to value the areas of land damage quantified; and
- a valuer is required to provide a land valuation of the insured land areas that have been damaged to determine the land cover cap

The customer says this a lot of information to think about, so the assessor explains to her:

- that there is relevant information on our website;
- that the claims manager will be in regular contact to update her on her claim and provide her with any new information, e.g. geotechnical engineering report, as it becomes available;
- that the customer can call her claims manager at any time with questions;
- that if the customer wishes, she can add someone she trusts to her claim as an additional contact to support her with it;
- that she may also consider having this support person help her arrange to have the debris removed from her driveway to restore access to her home. The assessor explains this would be carried out as urgent work and provides the necessary details on how to claim the cost of urgent works.

The assessor leaves the customer with the relevant land claim fact sheets and makes sure she has his contact details and those of the claims manager.

# Post-site assessment actions

The assessor returns to the office and:

- prepares an assessment report which explains the observed damage, the assessment outcome and the discussions she had onsite with the customer;
- uploads the assessment report and supporting information, including photographs and sketches, to the claim file;
- requests that a geotechnical engineer attend the property and prepare a report on their findings. The assessor requests that the geotechnical engineer give the

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Page **396** of **427** | **NHC Assessment Manual – NHI Act** 

Version as at 13/5/2025



assessment priority because it is one of the extra care responses the customer has agreed with her claims manager.

## Geotechnical engineer investigations and site assessment

The geotechnical engineer receives the request and contacts the customer to schedule a time to assess the damage.

The engineer visits the property and completes his assessment of the damage, as well as taking detailed measurements and noting his observations.

The engineer provides a draft report to the assessor for review. The assessor reviews his report and confirms that no points require clarification. The engineer finalises his report, which details the following:

## Property damage

Two landslides have occurred following heavy rainfall two weeks ago, which has resulted in the following natural hazard (landslide) damage to insured residential land:

- Landslide 1 a 5 m wide headscarp resulting in:
  - inundation on the main access way within 60 m of the dwelling (average depth 0.5 m;
  - o imminent damage risk of re-inundation on the main access way within 60 m of the dwelling.

The evacuated land from landslide 1 has occurred outside of insured land areas.

- Landslide 2 a 1 m wide landslide headscarp resulting in:
  - evacuation within 8 m of the dwelling
  - o inundation within 8 m of the dwelling
  - o imminent damage risk of further evacuation of insured land within 8 m of the dwelling
  - o imminent damage risk of re-inundation within 8 m of the dwelling.

The dwelling has not been damaged and is not considered to be at risk of imminent damage from either landslide.

The geotechnical engineer provides a conceptual remediation strategy for the damage caused by landslide 1 and landslide 2.







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#### Page 397 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



### Geotechnical engineer's summary of information (engineering report)

| Is this natural hazard damage?                   | Yes           | Yes              |
|--|---------------|------------------|
|  | (Landslide 1) | (Landslide 2)    |
| Land within 8 m of dwelling or appurtenant       |               |                  |
| structure  | Nil           | Yes              |
|  |               |                  |
| Area of insured land damaged:                    |               |                  |
| Evacuated land                                   | Nil           | 2 m <sup>2</sup> |
| Inundated land                                   | Nil           | 4 m² (1 m³)      |
| Area of insured land at risk of imminent damage: |               |                  |
| Evacuation                                       | Nil           | 1 m <sup>2</sup> |
| New inundation                                   | Nil           | Nil              |
| Re-inundation                                    | Nil           | 4 m² (0.5 m³)    |
| Land that is part of (or supports land that is   | Yes           | Nil              |
| part of) the main access way to the dwelling     |               |                  |
| and is within 60 m of dwelling                   |               |                  |
| Area of insured land damaged:                    |               |                  |
| Evacuated land                                   | Nil           | Nil              |
| Inundated land                                   | 12 m² (6 m³)  | Nil              |
| Area of insured land at risk of imminent damage: |               |                  |
| Evacuation                                       | Nil           | Nil              |
| New inundation                                   | Nil           | Nil              |
| Re-inundation                                    | 12 m² (3 m³)  | Nil              |
| Retaining walls within 60 m of the residential   |               |                  |
| building (dwelling or appurtenant structure)     |               |                  |
| supporting or protecting the residential         | Nil           | Nil              |
| building or insured land areas                   |               |                  |
| Not applicable:                                  |               |                  |
| Whole wall length                                | Nil           | Nil              |
| Retained height                                  | Nil           | Nil              |
| Damaged (insured face area)                      | Nil           | Nil              |
| Imminent damage (insured face area)              | Nil           | Nil              |
| Insured wall (face area)                         | Nil           | Nil              |
| Total wall (face area)                           | Nil           | Nil              |
| Dwelling and appurtenant structure(s)            | n/a           | n/a              |

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#### Page 398 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Has the dwelling or appurtenant structure been<br>damaged as a direct result of the natural<br>hazard?              | No   | No   |
|---|------|------|
| Cost to repair natural hazard damage  | n/a* | n/a* |
| Is there imminent damage to the dwelling (or<br>appurtenant structure) as a direct result of the<br>natural hazard? | No   | No   |
| Cost to remove the risk of imminent damage to dwelling (or appurtenant structure)                                   | n/a  | n/a  |
| Cost to repair imminent damage to dwelling (or appurtenant structure) if it were to occur                           | n/a* | n/a* |
| Insured service infrastructure  | n/a  | n/a  |
| Insured bridges or culverts   | n/a  | n/a  |
|   |      |      |
| Conceptual remediation strategy   |      |      |

\*To be assessed by an NHC cost estimator

#### Assessor next actions

The assessor:

- notifies the claims manager that the finalised geotechnical engineering report has been uploaded to the claim file;
- asks the claims manager to provide the customer with a copy of the engineering report and a claim update;
- engages a valuer and asks them to provide a valuation of the insured land areas damaged by natural hazard as detailed in the engineering report;
- completes his scope of works and submits it for peer review and approval.

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Page **399** of **427** | **NHC Assessment Manual – NHI Act** 

Version as at 13/5/2025



### Valuer investigations

The valuer receives the request from the assessor to value the damaged insured land areas and reviews the engineering report supplied.

The valuer provides a report to the assessor detailing the value of:

- the minimum sized site under the operative district plan;
- the insured land areas actually damaged;
- the insured land areas at risk of imminent damage.

### Valuation summary

In accordance with NHC requirements and pursuant to the Natural Hazards Insurance Act 2023, values (GST inclusive, if any) have been assessed following site inspection and analysis of comparable market evidence as follows:

| Item No | Description   | Area                    | Value     |
|---------|---|-------------------------|-----------|
| 1a      | Area of land (minimum sized site under district plan)           | 450 m <sup>2</sup>      |           |
| 1b      | Value of minimum sized site                                     |                         | \$300,000 |
| 1c      | Value of a 4000 m <sup>2</sup> site (if applicable)             | n/a                     | n/a       |
| 1d      | Actual site area  | 800 m <sup>2</sup>      |           |
| 2       | Market value of damaged land                                    | n/a                     |           |
| 2a      | Evacuated land – within 8 m of building                         | LS2 / 2 m <sup>2</sup>  | \$1200    |
| 2b      | Inundated land – within 8 m of building                         | LS2 / 4 m <sup>2</sup>  | \$1200    |
| 2c      | Evacuated land – main access way within<br>60 m of building     | n/a                     | n/a       |
| 2d      | Inundated land – main access way within<br>60 m of building     | LS1 / 12 m <sup>2</sup> | \$3000    |
| 3       | Market value of land at imminent risk of damage                 | n/a                     |           |
| За      | Evacuation of land – within 8 m of building                     | LS2 / 1 m <sup>2</sup>  | \$600     |
| 3b      | New inundation of land – within 8 m of building                 | n/a                     | n/a       |
| 3c      | Re-inundation of land – within 8 m of building                  | LS2 / 4 m <sup>2</sup>  | \$1200    |
| 3d      | Evacuation of land – main access way within<br>60 m of building | n/a                     | n/a       |

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#### Page 400 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Item No | Description   | Area                    | Value  |
|---------|---|-------------------------|--------|
| Зе      | Inundated land – main access way within<br>60 m of building | n/a                     | n/a    |
| 3f      | Re-inundation of land – within 60 m of<br>building          | LS1 / 12 m <sup>2</sup> | \$3000 |
| 4       | Diminution of value   | n/a                     | n/a    |
| 4a      | Diminution of value   | n/a                     | n/a    |
| 4b      | Description n/a   |                         |        |

#### Assessor final actions

The assessor's costed scope of works for the engineer's conceptual remediation strategy has been approved. After receiving the valuer's report, the assessor checks that the figures match those in the engineering report. The assessor then creates a settlement recommendation for the claims manager's review.

### <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this, arranges payment and then closes the claim.

The two landslides, which have occurred within the insured land areas of a single residential building, are both covered by a single land cover cap for that residential building. The land cover cap is treated as a single cap, which means it is one amount made up of the values of the areas of land damaged by landslide 1 plus landslide 2.

The single land cover cap of \$6000 applies to the entire residential land claim for this property. The land cover cap is the maximum amount that can be paid. Because the land cover cap of \$6000 is less than the \$22,950 reinstatement cost in this example, the land claim entitlement is the land cover cap of \$6000 (less the applicable \$500 land cover excess).

#### Settlement calculation

| Claim item                             | Repair<br>estimate | Valuation* | Settlement<br>amount |
|--|--------------------|------------|----------------------|
| Landslide 1                            |                    |            |                      |
| Inundation – main access way           | \$1100             | \$3000     | \$3000               |
| (12 m <sup>2</sup> /6 m <sup>3</sup> ) |                    |            |                      |

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#### Page 401 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Imminent damage re-inundation –           | \$850         | \$3000 | n/a**   |
|---|---------------|--------|---------|
| main access way                           |               |        |         |
| (12 m <sup>2</sup> / 3 m <sup>3</sup> )   |               |        |         |
|   |               |        |         |
| Landslide 2                               |               |        |         |
| Evacuation – within 8 m of dwelling       | \$20,000      | \$1200 | \$1200  |
| (2 m <sup>2</sup> )                       |               |        |         |
| Imminent damage evacuation - within       | Costed in     | \$600  | \$600   |
| 8 m of dwelling (1 m²)                    | the repair of |        |         |
|   | evacuation    |        |         |
|   | above         |        |         |
| Inundation – within 8 m of dwelling       | \$500         | \$1200 | \$1200  |
| $(4 \text{ m}^2/1 \text{ m}^3)$           |               |        |         |
| Imminent damage re-inundation –           | \$500         | \$1200 | n/a**   |
| within 8 m of dwelling (4 $m^2/0.5 m^3$ ) |               |        |         |
| Sub-total                                 | \$22,950      | \$6000 | \$6,000 |
| Less land cover excess                    |               |        | \$500   |
| Total land claim entitlement              |               |        | \$5,500 |

\*Basis of settlement

\*\*Re-inundation is not included in the settlement because the value of land is already valued in the inundation amount. Therefore, valuation of the same area cannot occur twice unless re-inundation is greater than the inundated value.









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Page 402 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



# v. Unrepairable land damage (cliff collapse)

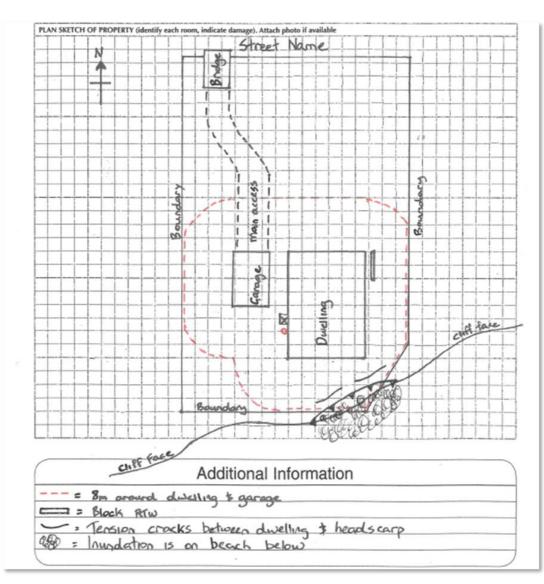


Figure 144 Site sketch of unrepairable land damage

a. Natural hazard type: Natural landslide

# Claim lodgement and triage phase

A cyclone causes large areas of flooding and other storm damage including landslides in the local area. A customer makes a claim for a landslide through her insurer's online lodgement portal. When lodging her claim, the customer states:

> After all the bad weather we've been having, we got up on Tuesday morning and found that over 4 metres of the cliff at the rear of our house has fallen away.

The claims manager receives the claim file and contacts the customer to discuss the damage. The claims manager confirms with the customer that the damage that has occurred is within 8 m of the residential building. The customer states that the cliff

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Appendix 5 – Case studies











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# Page 403 of 427 | NHC Assessment Manual – NHI Act



face is now approximately 6 m away from the residential building. The claims manager recommends that the customer take reasonable steps to reduce safety concerns if it is safe to do so, e.g. put up a temporary barrier.

The claims manager asks for an assessor to attend the property and carry out a site assessment.

### Assessment

The assessor reviews the claim file and calls the customer to discuss the damage in more detail. The customer says she has not noticed any further movement since making her claim. She says she has now taped off the cliff edge to stop people from approaching it. A site assessment is booked and confirmed.

The customer meets the assessor onsite and they look at the area of damage together. The assessor finds visible land (tension) cracks in the lawn close to the cliff edge (headscarp) which indicate that there is still a degree of slope instability and that any assessment needs to proceed with caution.

The assessor confirms the following damage:

- The cliff has collapsed with evacuation of part of the lawn area and the debris is visible on a section of inaccessible beach below.
- A small area of land that has been lost is within the insured land areas, i.e. within 8 m of the residential dwelling.
- The majority of the land that has been lost is outside the insured land areas, i.e. outside 8 m of the residential building and the insured person's land.

The assessor records the damage in a land sketch and takes detailed notes of the damage and relevant supporting photographs.

# Post-assessment meeting with customer

The assessor takes some time with the customer and explains the findings of her assessment. She advises her that:

- the majority of damage falls outside the insured land areas covered by the NHI Act.
- a small area of damage falls within the insured land areas we cover.
- a geotechnical engineer is required to attend the site for further claim investigations and report on their findings, including:

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- o confirming natural hazard damage has occurred;
- quantifying the extent of the damage that has occurred (including any imminent damage);
- o quantifying what damage has occurred to the insured land areas;

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#### Page 404 of 427 | NHC Assessment Manual – NHI Act



- providing a conceptual remediation strategy for the damage that has occurred within the insured land areas, and which would also remove any risk of imminent damage; and
- $\circ~$  providing an estimate for relevant professional and compliance fees.
- the assessor will then prepare a scope of works for the conceptual remediation strategy provided in the geotechnical engineering report and engage a valuer to value the areas of land damage quantified.
- a valuer is required to provide a land valuation of the insured land areas that have been damaged to determine the land cover cap.

The customer explains that she had two prior NHCover claims for landslide damage at her previous property, and she feels comfortable with the assessor's findings. The assessor offers her relevant land fact sheets and advises her that these are also on our website.

The assessor also takes the opportunity to explain the remainder of the assessment process, the land cover cap, land cover excess and settlement process.

### Post-site assessment actions

The assessor returns to the office and:

- prepares an assessment report with detailed notes about his observations and supported by his photographs and sketches;
- asks a geotechnical engineer to attend the property and prepare a report on their findings.

# Geotechnical engineer investigations and site assessment

Before visiting the site, the geotechnical engineer reviews the known geological conditions in the general area of the damaged property and makes any relevant notes ready for her site assessment. She visits the property and assesses the damage as well as taking detailed notes of her observations, prepares a sketch and takes supporting photographs.

The engineer provides a draft report to the assessor for review. The assessor reviews the report and confirms that no points require clarification. The engineer finalises her report, which details the following:

- A 20 m wide landslide has occurred as a result of heavy rainfall, affecting the steep cliff face along the southeast property boundary.
- The damage to the land is the result of a landslide which occurred two days before the customer made her claim with her insurer.
- The majority of the area of land damage falls outside the insured residential land.
- A small area of land damage falls within the insured residential land.

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#### Page 405 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- The damage includes evacuation of insured land and imminent damage risk of further evacuation of insured land.
- The property boundary extends to an area at the base of the cliff face, however by the time of the engineer's visit, the debris the assessor observed had been washed away by the sea. Therefore, no remediation is required for the inundation debris.
- The engineer proposes geofabric matting as a conceptual remediation strategy to remove the imminent damage risk of further evacuation. However, she considers that there is no practical remediation strategy to reinstate the evacuated land damage that has already occurred, i.e. the land lost from the cliff collapse cannot be restored.

| Is this natural hazard damage?   | Yes               |
|--|-------------------|
|  | (landslide 1)     |
| Land within 8 m of dwelling or appurtenant structure   | Yes               |
| Area of insured land damaged:  |                   |
| Evacuated land   | 7 m <sup>2</sup>  |
| Inundated land   | Nil               |
| Area of insured land at risk of imminent damage:   |                   |
| Evacuation   | 16 m <sup>2</sup> |
| New inundation   | Nil               |
| Re-inundation  | Nil               |
| Land that is part of (or supports land that is part of) the main access way to the dwelling and is within 60 m of dwelling | Nil               |
| Area of insured land damaged:  |                   |
| Evacuated land   | Nil               |
| Inundated land   | Nil               |
| Area of insured land at risk of imminent damage:   |                   |
| Evacuation   | Nil               |
| New inundation   | Nil               |
| Re-inundation  | Nil               |
| Retaining walls within 60 m of the residential building  | Nil               |
| (dwelling or appurtenant structure) supporting or  |                   |
| protecting the residential building or insured land areas  |                   |
| Not applicable:  |                   |
| Whole wall length  | Nil               |
| Retained height  | Nil               |

<u>Geotechnical engineer's summary of information (engineering report)</u>

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Page 406 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Damaged (insured face area)   | Nil                      |
|---|--------------------------|
| Imminent damage (insured face area)   | Nil                      |
| Insured wall (face area)  | Nil                      |
| Total wall (face area)  | Nil                      |
| Dwelling and appurtenant structure(s)   | n/a                      |
| Has the dwelling or appurtenant structure been damaged as a   | No                       |
| direct result of the natural hazard?  |                          |
| Cost to repair natural hazard damage  | n/a*                     |
| Is there imminent damage to the dwelling (or appurtenant structure) as a direct result of the natural hazard?   | No                       |
| Cost to remove the risk of imminent damage to dwelling (or appurtenant structure)   | n/a                      |
| Cost to repair imminent damage to dwelling (or appurtenant  | n/a*                     |
| structure) if it were to occur  |                          |
| Insured service infrastructure  | n/a                      |
| Insured bridges or culverts   | n/a                      |
|   |                          |
| Conceptual remediation strategy:  |                          |
| <b>Conceptual remediation strategy:</b><br>Due to site topography, it is not technically feasible to reinstate  | \$5000 +                 |
|   | \$5000 +<br>construction |
| Due to site topography, it is not technically feasible to reinstate   |                          |
| Due to site topography, it is not technically feasible to reinstate<br>the 7 m <sup>2</sup> of evacuated land. To remove risk of imminent damage  | construction<br>costs*   |
| Due to site topography, it is not technically feasible to reinstate<br>the 7 m <sup>2</sup> of evacuated land. To remove risk of imminent damage<br>to insured land, trim headscarp, contour side scarps, remove  | construction<br>costs*   |
| Due to site topography, it is not technically feasible to reinstate<br>the 7 m <sup>2</sup> of evacuated land. To remove risk of imminent damage<br>to insured land, trim headscarp, contour side scarps, remove<br>debris and install MacMat geogrid (or similar geofabric) over | construction             |

\*To be assessed by an NHC cost estimator

#### Assessor next actions

The assessor:

- notifies the claims manager that the finalised geotechnical engineering report has been uploaded to the claim file.
- calls the claims manager about the engineer's advice that the evacuated land damage is unrepairable, and to discuss what the recommended basis for calculating the land claim entitlement should be. They agree that it is appropriate to consider diminution of value (DOV) for the area of insured land that is damaged and unrepairable.
- asks the claims manager to provide the customer with a copy of the engineering report and a claim update.

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Appendix 5 – Case studies











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#### Page 407 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- engages a valuer and asks him to provide:
  - an assessed market value of the insured land areas that are damaged by natural hazard as detailed in the engineering report; and
  - a DOV valuation for the area of insured land damage that the engineer considers to be unrepairable.
- completes his scope of works for the engineer's recommended installation of anchored geomat at \$20,000 to remove the imminent damage risk, and submits it for peer review and approval.

The assessor and claims manager agree it is appropriate to ask the valuer to provide a DOV valuation for this claim because:

- it is not technically feasible to carry out a repair that would reinstate the evacuated land (cliff collapse); and
- the cost of any repair work would be disproportionate to the reduction in value to the property caused by the evacuated land damage.

# Valuer investigations

The valuer receives the request from the assessor to both value the damaged land area and provide a DOV valuation for the property. He also reviews the engineering report.

The valuer carries out the site assessment and provides the assessor with a valuation report which values the land actually lost or damaged (including imminent damage) at \$32,750.

The valuer also provides the assessor with a DOV valuation report which values the loss in value from the insured land area that is unrepairable at \$10,000.

# Valuation summary

In accordance with NHC requirements and pursuant to the Natural Hazards Insurance Act 2023, values (GST inclusive, if any) have been assessed following site inspection and analysis of comparable market evidence as follows:

| Item No | Description  | Area               | Value     |
|---------|--|--------------------|-----------|
| 1a      | Area of land (minimum sized site under District<br>Plan) | 450 m <sup>2</sup> |           |
| 1b      | Value of minimum sized site                              |                    | \$300,000 |
| 1c      | Value of a 4000 m <sup>2</sup> site (if applicable)      | n/a                | n/a       |
| 1d      | Actual site area   | 800 m <sup>2</sup> | n/a       |

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Appendix 5 - Case studies

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#### Page 408 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| ltem No | Description  | Area              | Value        |  |
|---------|--|-------------------|--------------|--|
| 2       | Market value of damaged land   |                   |              |  |
| 2a      | Evacuated land – within 8 m of the building  | 7 m <sup>2</sup>  | \$8750       |  |
| 2b      | Inundated land – within 8 m of the building  | n/a               | n/a          |  |
| 2c      | Evacuated land – main access way within 60 m of the building   | n/a               | n/a          |  |
| 2d      | Inundated land – main access way within 60 m<br>of the building  | n/a               | n/a          |  |
| 3       | Market value of land at imminent risk of damage  |                   |              |  |
| За      | Evacuation of land – within 8 m of the building  | 16 m <sup>2</sup> | \$24,000     |  |
| 3b      | New inundation of land – within 8 m of the building  | n/a               | n/a          |  |
| 3с      | Re-inundation of land – within 8 m of the building   | n/a               | n/a          |  |
| 3d      | Evacuation of land – main access way within<br>60 m of the building                                      | n/a               | n/a          |  |
| Зе      | New inundation of the land – main access way within 60 m of the building                                 | n/a               | n/a          |  |
| 3f      | Re-inundation of the land – main access way<br>within 60 m of the building                               | n/a               | n/a          |  |
| 4       | Diminution of value  | n/a               | n/a          |  |
| 4a      | Diminution of value  | n/a               | \$10,000     |  |
| 4b      | Description of the insured land areas that are da<br>the value in 4a; 7 m <sup>2</sup> of evacuated land | imaged a          | nd applies t |  |

#### Assessor final actions

The assessor's costed scope of works for the engineer's conceptual remediation strategy to remove the imminent damage risk has been approved. After receiving the valuer's report, the assessor checks that the figures valued match those detailed in the geotechnical engineering report and that it includes a DOV amount for the unrepairable land area.

The assessor has determined that, as set out below, the reinstatement cost plus DOV is less than the assessed market value of the land actually lost or damaged (including

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#### Page 409 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



imminent damage):

| Reinstatement c | ost: | \$20,000 |   |                                  |
|-----------------|------|----------|---|----------------------------------|
| Plus            | DOV: | \$10,000 |   |                                  |
| Total:          |      | \$30,000 | < | Assessed market value: \$ 32,750 |

Therefore, in accordance with section 39 of the NHI Act, the assessor recommends to the claims manager that the land claim entitlement be calculated on the reinstatement cost plus DOV, less the applicable land cover excess of \$500.

### <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise her of the claim outcome and explain the reasons for this. The claims manager also advises the customer that if she finds further damage, additional repairs are required or the cost of the repairs is greater than was estimated, she should get back in contact.

The claims manager identifies that there is a mortgage on the record of title, and that the settlement payment is over the relevant mortgagee cap, so advises the customer that the claim payment will need to be made to the mortgagee. The claims manager arranges payment and then closes the claim.

| Claim item  | Repair<br>estimate* | Valuation | Settlement<br>amount |
|---|---------------------|-----------|----------------------|
| Landslide 1   |                     |           |                      |
| Evacuation – within 8 m of dwelling (7 m²)                  | (DOV) \$10,000      | \$8,750   | \$10,000             |
| Imminent damage evacuation – within 8 m of dwelling (16 m²) | \$20,000            | \$24,000  | \$20,000             |
| Sub-total   | \$30,000            | \$32,750  | \$30,000             |
| Less land cover excess                                      |                     |           | \$500                |
| Total land claim entitlement                                |                     |           | \$29,500             |

### Settlement calculation

\*Basis of settlement

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NHI Act - For claims made in relation to initial damage from natural hazards occurring on or after 1 July 2024

Page 410 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# d. Building and land combined

# PLAN SKETCH OF PROPERTY (identify each room, indicate damage). Attach photo if available Street Name ĸ -60 0.00055 1 1 1 S 60 X P λa. Boundary CLIFF Additional Information = 8m around dwelling & garage = = Block RTW Headscorp of landship approx, In wide - 5m2 evacuated = mundation of Sm2 of insured land Undermining of Ix timber pilks

# i. Land damage under (and affecting) the dwelling

Figure 145 Site sketch of land damage under (and affecting) the dwelling

# a. Natural hazard type: Landslide

Claim lodgement and triage

The customer makes a claim for landslide damage via his insurer's online claim lodgement portal. His lodgement notes state:

There's been a landslide below our house. It happened during last night's storm and has exposed some of the piles. We're worried that it's going to get worse.

A claims manager triages the claim and is aware that there has been heavy rain in the area. After contacting the customer and discussing the damage with him, the claims manager considers it appropriate for an assessor to attend the property and inspect

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Appendix 5 – Case studies













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Page 411 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



the damage.

# <u>Assessment</u>

The assessor reviews the claim file and then contacts the customer to discuss the damage and arrange a site assessment.

When the assessor arrives onsite, the customer shows her the damage at the rear of his dwelling where the land gently slopes towards the south to the cliff edge along the property boundary. The assessor can see that a small landslide with a headscarp of approximately 1 m wide has occurred in the southeast corner of the dwelling and confirms the following damage:

- evacuation of insured land beneath the dwelling and within 8 m of the dwelling;
- inundation of insured land within 8 m of the dwelling;
- exposure of two timber foundation piles.

The assessor and the customer check the dwelling for any further damage related to the landslide and find none. The assessor records the damage in a land sketch and takes detailed notes and relevant supporting photographs of the damage. Based on this information, she determines that there has been natural hazard (landslide) damage to the insured residential land.

### Post-assessment meeting with customer

Because of the complexity of the damage, the assessor takes time with the customer and explains her findings. She advises him that:

- the damage falls within the insured land areas insured under the NHI Act;
- a geotechnical engineer is required to attend the site for further claim investigations.

She explains that she will complete a report of her findings, including:

- confirming natural hazard damage has occurred;
- quantifying the damage that has occurred (including any imminent damage);
- quantifying what damage has occurred within the insured land areas;
- providing a conceptual remediation strategy for the damage that has occurred within the insured land areas and which would also remove any risk of imminent damage.

The assessor then explains that after receiving the engineering report, she will:

- prepare a scope of works for the conceptual land remediation strategy provided in the engineering report and a separate scope of works for any building repair if necessary; and
- engage a valuer to value the areas of land damage quantified (a land valuation is required to determine the land cover cap).

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# Page 412 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



The assessor also takes the opportunity to explain the remainder of the assessment process, the building cover cap, land cover cap, building cover excess, land cover excess and settlement process.

The customer acknowledges he understands what is happening with his claim assessment and has his claims manager's contact details in case he has any questions.

# Post-site assessment actions

The assessor returns to her office and:

- prepares an assessment report that explains the observed damage, the assessment outcome and the discussions she had onsite with the customer;
- uploads the assessment report and supporting information, including photographs and sketches, to the claim file;
- requests that a geotechnical engineer attend the property and prepare a report on their findings.

# Geotechnical engineer investigations and site assessment

The engineer receives the request and contacts the customer to schedule a time to assess the damage.

He visits the property and completes his assessment of the damage, as well as taking detailed measurements and noting his observations.

The engineer provides a draft report to the assessor for review. The assessor reviews his report and confirms that no points require clarification.

The engineer finalises his report, which details the following:

# Property damage

A 1.5 m wide landslide has occurred following the heavy rainfall that occurred two weeks ago and has resulted in the following damage to insured property:

- 5 m<sup>2</sup> of evacuation (2 m<sup>2</sup> beneath the dwelling, 3 m<sup>2</sup> within 8 m of the dwelling);
- 5 m<sup>2</sup> of inundation (within 8 m of the dwelling);
- One timber pile that has been undermined;
- 1 m<sup>2</sup> risk of imminent damage from further evacuation (beneath the dwelling);
- 5 m<sup>2</sup> imminent damage risk of re-inundation (within 8 m of the dwelling);
- Imminent damage risk of undermining of one additional timber pile.

The engineer proposes a 2 m long timber pole retaining wall as a conceptual remediation strategy that would reinstate the evacuated land and remove the imminent damage risk to the land and dwelling. He also recommends underpinning the timber pile which has been undermined. He notes that there is good site access, and provides an estimate of the engineering and TA fees necessary to carry out the

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#### Page 413 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



conceptual land repair.

# Geotechnical engineer's summary of information (engineering report)

| Is this natural hazard damage?  | Yes<br>(landslide)                     |
|---|--|
| Land within 8 m of dwelling or appurtenant structure  | Yes                                    |
| Area of insured land damaged:   |  |
| Evacuated land (2 m <sup>2</sup> beneath dwelling + 3 m <sup>2</sup> within 8 m of                          |  |
| dwelling)   | 5 m <sup>2</sup>                       |
| Inundated land  | 5 m² (2 m³)                            |
| Area of insured land at risk of imminent damage:  |  |
| Evacuation (1 m <sup>2</sup> beneath dwelling)  | 1 m <sup>2</sup>                       |
| New inundation  | Nil                                    |
| Re-inundation   | 5 m <sup>2</sup> (0.5 m <sup>3</sup> ) |
| Land that is part of (or supports land that is part of) the main  | Yes                                    |
| access way to the dwelling and is within 60 m of the dwelling   |  |
| Area of insured land damaged:   |  |
| Evacuated land  | Nil                                    |
| Inundated land  | Nil                                    |
| Area of insured land at risk of imminent damage:  |  |
| Evacuation  | Nil                                    |
| New inundation  | Nil                                    |
| Re-inundation   | Nil                                    |
| Retaining walls within 60 m of the residential building   | n/a                                    |
| (dwelling or appurtenant structure) supporting or protecting the residential building or insured land areas |  |
| Not applicable:   |  |
| Whole wall length   | Nil                                    |
| Retained height   | Nil                                    |
| Damaged (insured face area)   | Nil                                    |
| Imminent damage (insured face area)   | Nil                                    |
| Insured wall (face area)  | Nil                                    |
| Total wall (face area)  | Nil                                    |
| Dwelling and appurtenant structure(s)   | Yes                                    |
|   | Yes                                    |

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Page 414 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Undermining of one (1) timber foundation pile.   |                                  |
|--|----------------------------------|
| Cost to repair natural hazard damage   | n/a*                             |
| Is there imminent damage to the dwelling or appurtenant structure  |                                  |
| as a direct result of the natural hazard?  | Yes                              |
| Undermining of one (1) additional timber foundation pile   |                                  |
| Cost to remove the risk of imminent damage to dwelling (or   |                                  |
| appurtenant structure)   | n/a *                            |
| Cost to repair imminent damage to dwelling (or appurtenant   |                                  |
| structure) if it were to occur   | n/a *                            |
|  |                                  |
| Insured service infrastructure   | n/a                              |
| ·  | n/a<br>n/a                       |
| Insured service infrastructure   |                                  |
| Insured service infrastructure<br>Insured bridges or culverts  |                                  |
| Insured service infrastructure Insured bridges or culverts Conceptual remediation strategy: Reinstate damage to land and remove risk of imminent damage to   | n/a                              |
| Insured service infrastructure<br>Insured bridges or culverts<br>Conceptual remediation strategy:  | <b>n/a</b><br>\$12,500 +         |
| Insured service infrastructure Insured bridges or culverts Conceptual remediation strategy: Reinstate damage to land and remove risk of imminent damage to insured land and dwelling by removing debris and constructing a | n/a<br>\$12,500 +<br>constructio |

\*To be reviewed by an NHC cost estimator

### Assessor next actions

The assessor:

- notifies the claims manager that the finalised engineering report has been uploaded to the claim file;
- asks the claims manager to provide the customer with a copy of the engineer's report and a claim update;
- engages a valuer and asks her to provide a valuation of the insured land areas damaged by natural hazard as detailed in the engineering report (including the imminent damage);
- prepares a scope of works for the land repair based on the engineer's remediation strategy and a separate scope of works for the building repair, as follows.

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Appendix 5 - Case studies

QBE

Page 415 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



### Scope of works

Land repair:

- Reinstate the damaged land and remove risk of imminent damage \$20,000.
- Remove inundation debris (2 m<sup>3</sup>) \$800.
- Remove the imminent damage re-inundation debris on the basis that it would occur (0.5 m<sup>3</sup>) \$500.

Building repair:

- Repair actual damage, underpinning one timber pile \$2,600.
- Repair imminent damage on the basis that it would occur, underpinning one timber pile \$2,600.

### Valuer investigations

The valuer receives the request from the assessor to value the damaged insured land areas and reviews the engineering report supplied.

She carries out a site assessment and provides the assessor with a valuation report.

### Valuation summary

In accordance with NHC requirements and pursuant to the Natural Hazards Insurance Act 2023, values (GST inclusive, if any) have been assessed following site inspection and analysis of comparable market evidence as follows:

| ltem No | Description  | Area               | Value     |
|---------|--|--------------------|-----------|
| 1a      | Area of land (minimum sized site under District<br>Plan) | 450 m <sup>2</sup> |           |
| 1b      | Value of minimum sized site                              |                    | \$300,000 |
| 1c      | Value of a 4000 m <sup>2</sup> site (if applicable)      | n/a                |           |
| 1d      | Actual site area   | 800 m <sup>2</sup> |           |
| 2       | Market value of damaged land                             |                    |           |
| 2a      | Evacuated land – within 8 m of building                  |                    |           |
|         | beneath building   | 2 m <sup>2</sup>   | \$1400    |
|         | within 8 m of building                                   | 3 m <sup>2</sup>   | \$1200    |
| 2b      | Inundated land – within 8 m of building                  | 5 m <sup>2</sup>   | \$1500    |
| 2c      | Evacuated land – main access way within 60 m of building | n/a                | n/a       |

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#### Page 416 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| 2d | Inundated land – main access way within 60 m of building                                  | n/a              | n/a          |
|----|---|------------------|--------------|
| 3  | Market value of land at imminent risk of damage   |                  |              |
| 3a | Evacuation of land – within 8 m of building<br>beneath building<br>within 8 m of building | 1 m²<br>n/a      | \$700<br>n/a |
| 3b | New inundation of land – within 8 m of building   | n/a              | n/a          |
| 3c | Re-inundation of land – within 8 m of building  | 5 m <sup>2</sup> | \$1500       |
| 3d | Evacuation of land – main access way within<br>60 m of building                           | n/a              | n/a          |
| Зе | New inundation of land – main access way<br>within 60 m of building                       | n/a              | n/a          |
| 3f | Re-inundation of land – main access way within<br>60 m of building                        | n/a              | n/a          |
| 4  | Diminution of value   | n/a              | n/a          |
| 4a | Diminution of value   | n/a              | n/a          |
| 4b | Description n/a   |                  |              |

### Assessor final actions

The assessor's costed scope of works for the land repair based on the engineer's conceptual remediation strategy and the separate scope of works for the building repair have been approved. After receiving the valuer's report, the assessor checks the figures match those detailed in the engineering report. She then creates a settlement recommendation for the land claim and the building claim for the claims manager's review, as follows.

### Settlement recommendation

### Land claim:

The assessor compares the reinstatement cost for debris removal and retaining wall construction of \$20,800, against the valuation amount of \$4800, excluding reinundation (re inundation is not included in the settlement because the value of land is already valued in the inundation amount. Therefore, valuation of the same area cannot occur twice unless re inundation is greater than the inundated value).

In this case, the land valuation is less than the estimated reinstatement cost. Therefore, in accordance with section 39 of the NHI Act, the assessor recommends to the claims manager that the land claim entitlement be \$4800, less the applicable

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Page 417 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



land cover excess of \$500.

Building claim:

Because the land claim is being settled at the land cover cap, the imminent damage risk to the building has not been removed. Therefore, the assessor recommends to the claims manager that the building claim entitlement be based on the estimated repair cost of \$5,200 (for both the actual and imminent damage), less the applicable building cover excess of \$500.

# <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise him of the claim outcome and explains the reasons for this. The claims manager advises the customer that if he finds further damage, additional repairs are required, or the cost of the repairs is greater than was estimated, he should get back in contact. The claims manager then arranges payment and closes the claim.

| Claim item  | Repair<br>estimate                                | Valuation* | Settlement<br>amount |
|---|---|------------|----------------------|
| Evacuation – beneath dwelling (2 m²)  | \$20,000  | \$1400     | \$1400               |
| Evacuation – within 8 m of dwelling (3 m²)                                  |   | \$1200     | \$1200               |
| Inundation – within 8 m of dwelling (5 m²/ 2 m³)                            | \$800   | \$1500     | \$1500               |
| Imminent damage evacuation –<br>beneath dwelling (1 m²)                     | Costed in the<br>repair of<br>evacuation<br>above | \$700      | \$700                |
| Imminent damage re-inundation –<br>within 8 m of dwelling<br>(5 m²/ 0.5 m³) | \$500   | \$1500     | n/a**                |
| Sub-total   | \$21,300  | \$4800     | \$4800               |
| Less land cover excess  |   |            | \$500                |
| Total land claim entitlement  |   |            | \$4300               |

\*Basis of settlement

\*\*Re-inundation is not included in the settlement because the value of land is already valued in the

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Appendix 5 - Case studies

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#### Page 418 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



inundation amount. Therefore, valuation of the same area cannot occur twice unless re-inundation is greater than the inundated value.

# Settlement calculation - building damage

| Claim item                                       | Repair<br>estimate* | Valuation | Settlement<br>amount |
|--|---------------------|-----------|----------------------|
| Actual damage to building (per scope of works)   | \$2600              | n/a       | \$2600               |
| Imminent damage to building (per scope of works) | \$2600              | n/a       | \$2600               |
| Sub-total  | \$5200              | n/a       | \$5200               |
| Less building cover excess                       |                     |           | \$500                |
| Total building claim entitlement                 |                     |           | \$4700               |

\*Basis of settlement









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Page 419 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



# ii. Land damage with imminent damage to the dwelling

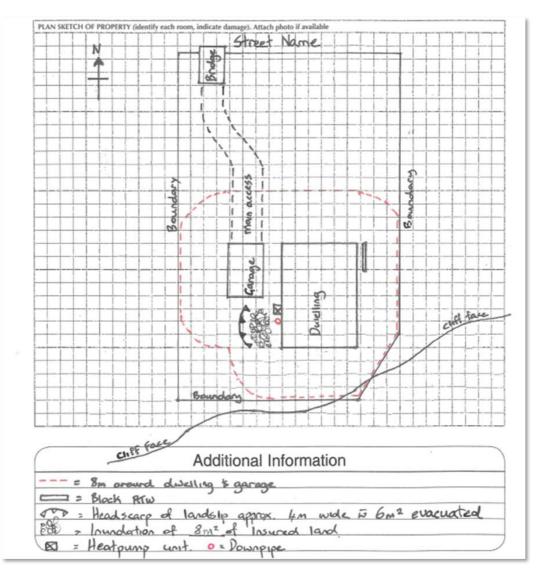


Figure 146 Site sketch of land damage with imminent damage to the dwelling

# a. Natural hazard type: Landslide

# Claim lodgement and triage

The customer makes a claim for landslide damage via his insurer's online claim lodgement portal. The customer's lodgement notes state:

We have had non-stop heavy rain for the last 3 days. Last night we heard a terrible sound and woke to find part of the steep hill at the rear of the property has collapsed on to the lawn behind the house.

The customer also sends in photos showing the landslide. A claims manager reviews these photos and triages the claim, noting that there was heavy rain in the area as reported. After contacting the customer and discussing the damage, the claims



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#### Page 420 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



manager considers it appropriate for an assessor to attend the property and inspect the damage.

### <u>Assessment</u>

The assessor reviews the claim file and then contacts the customer to discuss the damage. The customer advises on the phone that he is not using the back bedrooms where the landslide is located as he has concerns about whether the area is safe. The assessor books a site assessment.

When the assessor arrives onsite, the customer shows her the damage location on the southern side of the property. The assessor can see that the bank at the rear of the property has suffered a failure resulting in a landslide which has left a small section of the slope undermined.

The assessor records the damage in a land sketch and takes detailed notes of the damage and relevant supporting photographs. She measures the size of the landslide and its proximity to the dwelling.

She determines that all of the damaged land, both evacuated and inundated, is within the insured person's land and within 8 m of the dwelling. She records that the headscarp of the landslide is approximately 4 m across. The assessor estimates that approximately 6 m<sup>2</sup> of insured land has evacuated and approximately 8 m<sup>2</sup> has been inundated. She notes there is no actual damage to the dwelling. Based on this information, the assessor determines that there has been valid natural hazard (landslide) damage to insured land.

She determines that a geotechnical engineer is required to attend the site for further claim investigations and report on their findings, including:

- confirming natural hazard damage has occurred;
- quantifying the damage that has occurred (including any imminent damage);
- quantifying what damage has occurred within the insured land areas;
- providing a conceptual remediation strategy for the damage that has occurred to the insured land areas, and which would also remove any risk of imminent damage; and
- providing an estimate for any relevant professional and compliance fees.

# Post-assessment meeting with customer

The assessor takes time with the customer and explains her findings. She advises him that:

- the damage falls within the insured land areas covered by the NHI Act;
- a geotechnical engineer is required to attend the site for further claim investigations and report on their findings, including:
  - o confirming natural hazard damage has occurred;

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#### Page 421 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- o quantifying the damage that has occurred (including any imminent damage);
- o quantifying what damage has occurred within the insured land areas;
- providing a conceptual remediation strategy for the damage that has occurred to the insured land areas, and which would also remove any risk of imminent damage;
- the assessor will then prepare a scope of works for the conceptual remediation strategy provided in the engineering report and engage a valuer to value the insured land areas that are damaged, as quantified in the engineering report; and
- a valuer is required to provide a land valuation of the insured land areas and damage to determine the land cover cap.

The assessor acknowledges the customer's safety concerns and she suggests steps he could consider taking to address his safety concerns. The assessor considers that the claim-specific facts do not require any further action under our **Dangerous and** Insanitary Buildings and Land Policy.

The assessor also takes the opportunity to explain the remainder of the assessment process, the building cover cap, land cover cap, building cover excess, land cover excess and settlement process.

The customer says he is happy with the summary and understands the next steps for assessing their claim. The assessor leaves the customer with relevant land claim fact sheets and makes sure the customer has her contact details and those of the claims manager.

# Post-site assessment actions

The assessor returns to the office and:

- prepares an assessment report which explains the observed damage, the assessment outcome and the discussions she had onsite with the customer;
- uploads the assessment report and supporting information, including photographs and sketches, to the claim file;
- requests that a geotechnical engineer attend the property and prepare a report on their findings.

# Geotechnical engineer investigations and site assessment

The geotechnical engineer receives the request and contacts the customer to schedule a time to assess the damage. The engineer attends site and the customer directs him to the damaged area.

The engineer determines that a 4 m wide landslide has occurred following heavy rainfall which has resulted in the following natural hazard (landslide) damage:

evacuated land within 8 m of the dwelling (7.5 m<sup>2</sup>), and

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### Page 422 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



- inundated land within 8 m of the dwelling  $(8.5 \text{ m}^2 / 3 \text{ m}^3)$ ;
- imminent damage risk to the residential land, which includes:
- further evacuation of land within 8 m of the dwelling (8 m<sup>2</sup>);
- new inundation of land within 8 m of the dwelling  $(4 \text{ m}^2/2.5 \text{ m}^3)$ ;
- re-inundation of land within 8 m of the dwelling  $(8.5 \text{ m}^2/1.5 \text{ m}^3)$ ;
- imminent damage risk to the residential building, which includes:
- impact damage and staining to the dwelling's rear exterior weatherboard cladding;
- impact damage to a heat pump unit; and
- impact damage to an 80 mm PVC downpipe.

The engineer proposes a 5 m long timber pole retaining wall as a conceptual remediation strategy that would reinstate the evacuated land and remove all risk of imminent damage. He provides the requirements of the retaining wall in sufficient detail to allow for a scope of works and cost estimate. The engineer also provides an estimate of the professional and compliance fees necessary to carry out the remediation strategy.

The engineer provides a draft report to the assessor for review. The assessor reviews his report and confirms that no points require clarification. The engineer then finalises his report.

|  | r1                 |
|--|--------------------|
| Is this natural hazard damage?                                   | Yes                |
|  | (landslide 1)      |
|  |                    |
| Land within 8 m of dwelling or appurtenant structure             | Yes                |
|  |                    |
| Area of insured land damaged:                                    |                    |
| Evacuated land   | 7.5 m <sup>2</sup> |
| Inundated land   | 8.5 m <sup>2</sup> |
|  |                    |
| Area of insured land at risk of imminent damage:                 |                    |
| Evacuation   | 8 m <sup>2</sup>   |
| New inundation   | 4 m <sup>2</sup>   |
| Re-inundation  | 8.5 m <sup>2</sup> |
|  |                    |
| Land that is part of (or supports land that is part of) the main | Nil                |
| access way to the dwelling and is within 60 m of dwelling        |                    |
| Area of insured land damaged:                                    |                    |
| Evacuated land   | Nil                |
| Inundated land   | Nil                |
|  | -                  |
| Area of insured land at risk of imminent damage:                 |                    |
|  | I                  |

<u>Geotechnical engineer's summary of information (engineering report)</u>

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Appendix 5 - Case studies

QBE











| Page 423 of 427   NHC | Assessment Manual – NHI Act |
|-----------------------|-----------------------------|
|-----------------------|-----------------------------|

Version as at **13/5/2025** 



| Evacuation   | Nil          |
|--|--------------|
| New inundation   | Nil          |
| Re-inundation  | Nil          |
| Retaining walls within 60 m of the residential building        |              |
| (dwelling or appurtenant structure) supporting or              |              |
| protecting the residential building or insured land areas      | Nil          |
| Not applicable:  |              |
| Whole wall length  | Nil          |
| Retained height  | Nil          |
| Damaged (insured face area)                                    | Nil          |
| Imminent damage (insured face area)                            | Nil          |
| Insured wall (face area)                                       | Nil          |
| Total wall (face area)   | Nil          |
| Dwelling and appurtenant structure(s)                          | Yes          |
| Has the dwelling or appurtenant structure been damaged as a    |              |
| direct result of the natural hazard?                           | No           |
| Cost to repair natural hazard damage                           | n/a*         |
| Is there imminent damage to the dwelling (or appurtenant       |              |
| structure) as a direct result of the natural hazard?           | Yes          |
| Impact damage and staining to the dwelling's rear exterior     |              |
| weatherboard cladding, impact damage to a heat pump unit       |              |
| and 8 mm PVC downpipe  |              |
| Cost to remove the risk of imminent damage to dwelling (or     |              |
| appurtenant structure)   | n/a *        |
| Cost to repair imminent damage to dwelling (or appurtenant     |              |
| structure) if it were to occur                                 | n/a *        |
| Insured service infrastructure                                 | n/a          |
| Insured bridges or culverts                                    | n/a          |
| Conceptual remediation strategy:                               |              |
| Reinstate the land by removing debris. Remove risk of imminent | \$15,500 +   |
| damage to the insured land by constructing a 5 m long          | construction |
| cantilever timber retaining wall (225 mm SED timber poles at   | costs*       |
|  |              |

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#### Page 424 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



| Land within 8 m of dwelling or appurtenant structure      | Yes           |
|---|---------------|
|   | (landslide 1) |
| pole length)<br>Is this natural hazard damage?            | Yes           |
| 1 m centres and minimum pole embedment 2.5 m, 3.6 m total |               |

\*To be reviewed by an NHC estimator

#### Assessor next actions

The assessor:

- notifies the claims manager that the finalised engineering report has been uploaded to the claim file;
- asks the claims manager to provide the customer with a copy of the engineering report and a claim update;
- engages a valuer and asks them to provide a valuation of the land damaged by natural hazard as detailed in the engineering report (including the imminent damage).
- prepares her scope of works which she submits for peer review and approval, based on the engineer's remediation strategy as follows:

| Reinstate the damaged land and remove risk of imminent damage     | \$56,000 |
|---|----------|
| Remove inundation debris (3 m <sup>3</sup> )                      | \$850    |
| Repair the imminent land damage on the basis that it would occur: |          |
| Remove re-inundation debris (1.5 m <sup>3</sup> )                 | \$550    |
| Remove the new inundation (2.5 m <sup>3</sup> )                   | \$850    |

Repair the imminent building damage on the basis that it would occur: \$8060

### Valuer investigations

The valuer receives the request from the assessor to value the damaged land areas and reviews the engineering report supplied.

The valuer attends site and provides the assessor with a valuation report which values the damage to insured land areas as detailed in the valuation report below.

### Valuation summary

In accordance with NHC requirements and pursuant to the Natural Hazards Insurance Act 20234, values (GST inclusive, if any) have been assessed following site inspection and analysis of comparable market evidence as follows:

44 Insurance







UNCLASSIFIED

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#### Page 425 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| ltem No | Description   | Area               | Value     |
|---------|---|--------------------|-----------|
| 1a      | Area of land (minimum sized site under<br>District Plan)            | 450 m <sup>2</sup> |           |
| 1b      | Value of minimum sized site   |                    | \$300,000 |
| 1c      | Value of a 4000 m <sup>2</sup> site (if applicable)                 | n/a                |           |
| 1d      | Actual site area  | 800 m <sup>2</sup> |           |
| 2       | Market value of damaged land  |                    |           |
| 2a      | Evacuated land – within 8 m of building                             | 7.5 m <sup>2</sup> | \$3000    |
| 2b      | Inundated land – within 8 m of building                             | 8.5 m <sup>2</sup> | \$5950    |
| 2c      | Evacuated land – main access way within<br>60 m of building         | n/a                | n/a       |
| 2d      | Inundated land – main access way within<br>60 m of building         | n/a                | n/a       |
| 3       | Market value of land at imminent risk of damage                     |                    |           |
| За      | Evacuation of land – within 8 m of building                         | 8.0 m <sup>2</sup> | \$3200    |
| 3b      | New inundation of land – within 8 m of building                     | 4.0 m <sup>2</sup> | \$2800    |
| 3с      | Re-inundation of land – within 8 m of building                      | 8.5 m <sup>2</sup> | \$5950    |
| 3d      | Evacuation of land – main access way within<br>60 m of building     | n/a                | n/a       |
| Зе      | New inundation of land – main access way<br>within 60 m of building | n/a                | n/a       |
| 3f      | Re-inundation of land – main access way<br>within 60 m of building  | n/a                | n/a       |
| 4       | Diminution of value   | n/a                | n/a       |
| 4a      | Diminution of value   | n/a                | n/a       |
| 4b      | Description n/a   |                    |           |

Assessor final actions

The assessor's costed scope of works for the engineer's conceptual remediation strategy has been approved.

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# Page 426 of 427 | NHC Assessment Manual – NHI Act

Version as at 13/5/2025



After receiving the valuer's report, the assessor checks that the figures match those in the geotechnical engineering report. She then compares the land reinstatement cost of \$56,850 against the assessed market value of \$14,950, excluding reinundation. Reinundation is not included in the settlement because the value of land is already valued in the inundation amount. Therefore, valuation of the same area cannot occur twice unless re-inundation is greater than the inundated value.

In this case, the assessed market value of \$14,950 is less than the estimated reinstatement cost (which would reinstate the damaged land and remove the imminent damage risk) of \$56,850. Therefore, in accordance with section 43 of the NHI Act, the assessor recommends to the claims manager that the land claim entitlement be settled at the land cover cap, less the applicable land cover excess.

Because the land claim is being settled at the land cover cap, the imminent damage risk to the building has not been removed. Therefore, the assessor recommends to the claims manager that the building claim be settled based on the estimated repair cost of \$8,060, less the applicable building cover excess.

# <u>Settlement</u>

The claims manager reviews the assessor's settlement recommendation and supporting documents. The claims manager agrees with the assessor's settlement recommendation and on that basis, contacts the customer to advise him of the claim outcome, explains the reasons for this, arranges payment and closes the claim.

| Claim item   | Repair<br>estimate                                | Valuation* | Settlement<br>amount |
|--|---|------------|----------------------|
| Evacuation – within 8 m of dwelling (7.5 m <sup>2</sup> )                      | \$56,000  | \$3000     | \$3000               |
| Inundation – within 8 m of dwelling (8.5 m² / 3 m³)                            | \$850   | \$5950     | \$5950               |
| Imminent damage evacuation -<br>within 8 m of dwelling (8.0 m²)                | Costed in the<br>repair of<br>evacuation<br>above | \$3200     | \$3200               |
| Imminent damage new-inundation –<br>within 8 m of dwelling<br>(4.0 m²/ 2.5 m³) | \$850   | \$2800     | \$2800               |
| Imminent damage re-inundation –<br>within 8 m of dwelling<br>(8.5 m²/ 1.5 m³)  | \$550   | \$5,950    | n/a                  |
| Sub-total  | \$58,250  | \$20,900   | \$14,950             |

# <u>Settlement calculation – landslide 1</u>

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Page 427 of 427 | NHC Assessment Manual – NHI Act

Version as at **13/5/2025** 



| Claim item                   | Repair<br>estimate | Valuation* | Settlement<br>amount |
|------------------------------|--------------------|------------|----------------------|
| Less land cover excess       |                    |            | \$500                |
| Total land claim entitlement |                    |            | \$14,450             |

\*Basis of settlement

Settlement calculation – building damage

| Claim item                                       | Repair<br>estimate* | Valuation | Settlement<br>amount |
|--|---------------------|-----------|----------------------|
| Imminent damage to building (per scope of works) | \$8060              | n/a       | \$8060               |
| Sub-total  | \$8060              | n/a       | \$8060               |
| Less building cover excess                       |                     |           | \$500                |
| Total building claim entitlement                 |                     |           | \$7560               |

\*Basis of settlement









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