



## Office of Hon Gerry Brownlee

MP for Ilam  
Leader of the House  
Minister of Transport

Minister for Canterbury Earthquake Recovery  
Minister Responsible for the Earthquake Commission

12 MAR 2013

Keith Turner  
Chair  
Port Hills Zoning Review Advisory Group

Withheld under section 9(2)(a)

Dear Dr Turner

Thank you for forwarding the Port Hills Zoning Review Advisory Group's (Advisory Group) minutes and addendum with your recommendations for zoning of properties in the Port Hills. I also appreciate you arranging for maps to be prepared showing your zoning recommendations.

As you are aware, on 1 October 2012 Cabinet agreed that the following criteria would form the basis of the Advisory Group's review of Port Hills zoning decisions:

1. *Outside of the areas identified by GNS as high risk, properties have been zoned green where land damage and life risk could be addressed on an individual basis.*
2. *In the areas identified by GNS as high risk, red zones have been declared where:*
  - a. *annual individual fatality risk associated with residential dwellings in the area is higher than 1 in 10,000 at 2016 risk levels, as per the GNS modelling, subject to expert advice in very particular circumstances [and requiring the agreement of both CERA and CCC]; or*
  - b. *there is potential for immediate cliff collapse or land slip, as assessed by GNS, caused or accentuated by the Canterbury earthquakes with associated risk to life; and*
  - c. *an engineering solution to mitigate the life risk is judged not to be desirable...; and*
  - d. *the health and wellbeing of residents is at risk from remaining in the area for prolonged periods.*
3. *In the areas identified by GNS as high risk, green zones have been declared where land damage and any life risk could be addressed on an individual basis and any life risk from rock roll was less than 1 in 10,000 at 2016 risk levels as per the GNS modelling.*

The Advisory Group was tasked with ensuring that the zoning decisions for the Port Hills are consistent with the Cabinet criteria.

In your minutes (page 6) you have noted that the Advisory Group developed the following guiding considerations that it applied consistently across the Port Hills:

1. *That a rock roll-affected property zoned for residential use would typically be recommended for red zoning if the dwelling was entirely within or substantially intersected by the 1 in 10,000 2016 AIFR line as defined by GNS science.*
2. *That commercial buildings, where buildings were within or substantially intersected by the 1 in 10,000 2016 AIFR line, typically have been recommended for red zoning.*
3. *That properties that are zoned rural under the CCC's City Plan and the Banks Peninsula District Plan are generally recommended for green zoning. Rural properties have been recommended for red zoning where they are included in the GNS Science rock roll or cliff collapse models, are part of the residential settlement pattern for the area, have met the red zoning criteria, and the Group has applied its guiding considerations in a consistent manner.*
4. *Where properties did not strictly meet the red zoning criteria, but the intent of the criteria was met, the Group has recommended that these properties be zoned red.*

After reviewing your recommendations, and the maps, I seek further information and clarification from you about the basis for your recommendations to amend, or not to amend, the zoning classification for a number of properties.

I anticipate that after final zoning decisions are made some property owners will request more information from me or the Canterbury Earthquake Recovery Authority (CERA) to explain the reasons for their property's zoning. I acknowledge that you have provided general comments about the limitations of the GNS Science model (for example, that the model may locally over or understate life risk for particular properties due to localised effects that were averaged out by the area-wide models). You have also advised that further information and advice, and field observations, have been taken into account in your zoning recommendations. It is, however, unclear to me how this further information applies to particular properties and how I can ensure that property owners understand how the recommendations were reached.

My current read of the draft minutes indicates that there are 390 properties considered as part of the review where the basis for your zoning recommendation is unclear. I require further information from you so that I can provide this explanation to property owners if it is requested.

The properties listed in Appendix A are either intersected by, or wholly within, either:

- the 1 in 10,000 AIFR line (risk line) as defined by GNS Science, or
- the areas identified as being at risk of cliff collapse.

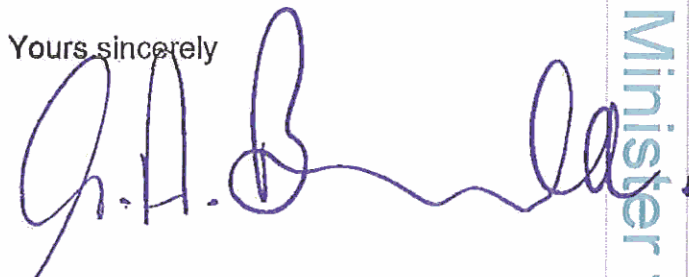
The properties listed in Appendix B appear to be outside any area of identified risk and are recommended to become, or remain, zoned red.

Could you please provide further information about the reasons for your recommendations in relation to each of these properties? In particular, I seek information about:

- which of the Cabinet criteria and your own guiding considerations you have relied on for each recommendation; and
- details of the additional information or advice you have relied on (other than the GNS Science rock roll or cliff collapse models) for each recommendation.

I would appreciate it if you could give an indication within 10 working days from the date of this letter, if no sooner, with the requested information for the properties listed in Appendices A and B.

Yours sincerely



Hon Gerry Brownlee  
**Minister for Canterbury Earthquake Recovery**

Appendix A – Properties wholly or partly within an area of identified risk

Appendix B – Properties which appear to be outside any area of identified risk

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**Appendix A – Properties wholly or partly within an area of identified risk**

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
108A Bowenvale Ave	1	Bowenvale	Remain green	More than half of property within risk area
101G Bowenvale Ave	1	Bowenvale	Remain green	Touching risk area
101H Bowenvale Ave	1	Bowenvale	Remain green	More than half of property within risk area
101A Bowenvale Ave	1	Bowenvale	Remain green	Half of property within risk area
101E Bowenvale Ave	1	Bowenvale	Remain green	Less than half of property within risk area
147 Bowenvale Ave	1	Bowenvale	Remain green	Less than half of property within risk area
73A Bowenvale Ave	1	Bowenvale	Remain green	Less than half of property within risk area
14 Dalefield Drive	1	Bowenvale	Remain green	Less than half of property within risk area
11 Maurice Knowles Lane	1	Bowenvale	Remain green	Touching risk area
54 Bowenvale Ave	1	Bowenvale	Remain green	Touching risk area
Note that properties further up the valley, which may also be affected by risk, cannot be seen on the map	1	Bowenvale		
74 Major Aitken Dr	1	Bowenvale	Remain green	More than half of property within risk area
18 Emerald Lane	1	Bowenvale	Remain green	Less than half of property within risk area
87E Whaka Tce	2	Woodlau Rise	Remain green	Less than half of property within risk area
27 Major Aitken Drive	2	Woodlau Rise	Remain green	Less than half of property within risk area
2 View Tce	3	Centaurus Rd	Remain green	Cliff Collapse Area
2F View Tce	3	Centaurus Rd	Remain green	Touching EQ event lines
4 View Tce	3	Centaurus Rd	Remain green	Touching EQ event lines
6 View Tce	3	Centaurus Rd	Remain green	Touching EQ event lines
8 View Tce	3	Centaurus Rd	Remain green	Touching EQ event lines
10 View Tce	3	Centaurus Rd	Remain green	Touching EQ event lines
216 Centaurus Rd	3	Centaurus Rd	Remain green	Cliff Collapse Area
54 Rapaki Rd	4	Rapaki Rd	Remain green	Touching risk area
58 Rapaki Rd	4	Rapaki Rd	Remain green	Touching risk area
9 The Crescent	4	Rapaki Rd	Remain green	Touching risk area
10 The Crescent	4	Rapaki Rd	Remain green	Touching risk area
11R The Crescent	4	Rapaki Rd	Remain green	Less than half of property within risk area
79 Albert Terrace	4	Rapaki Rd	Remain green	Less than half of property within risk area

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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
56 Hillsborough Terrace	4	Rapaki Rd	Remain green	Less than half of property within risk area
365 Port Hills Rd	5	Stronsay	Remain green	Touching Risk Area
351 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
375 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
373 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
371 Port Hills Rd	5	Stronsay	Remain green	Less than half of property within risk area
369 Port Hills Rd	5	Stronsay	Remain green	Less than half of property within risk area
333 Port Hills Rd	5	Stronsay	Remain green	Half of property within risk area / Cliff Collapse Area
335 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
337 Port Hills Rd	5	Stronsay	Remain green	Less than half of property within risk area
19 Stronsay Ln	5	Stronsay	Remain green	Touching Risk Area
323 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
321 Port Hills Rd	5	Stronsay	Remain green	Less than half of property within risk area
339 Port Hills Rd	5	Stronsay	Remain green	More than half of property within risk area
327 Port Hills Rd	5	Stronsay	Remain green	Touching Risk Area/Touching EQ Event Lines
315 Port Hills Rd	6	Port Hills Road	Remain green	More than half of property within risk area
317 Port Hills Rd	6	Port Hills Road	Remain green	Half of property within risk area
310 Port Hills Rd	6	Port Hills Road	Remain green	Touching Risk Area
308 Port Hills Rd	6	Port Hills Road	Remain green	Touching Risk Area
May be more properties in area of risk further down Port Hills Rd that are out of sight on this map	6	Port Hills Road	Remain green	
275 Port Hills Rd	6	Port Hills Road	Rec: green > red	Touching risk area
2 Avoca Valley Rd	6	Port Hills Road	Rec: green > red	Touching risk area
4B Avoca Valley Rd	6	Port Hills Road	Rec: green > red	Touching risk area
6 Avoca Valley Rd	6	Port Hills Road	Rec: green > red	Touching risk area
1 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
3 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area

Addresses of Identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
5 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
7 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
9 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
11 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
13 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
19 Avoca Valley Rd	6	Port Hills Road	Remain green	Less than half of property within risk area
19E Avoca Valley Rd	6	Port Hills Road	Remain green	All of property within risk area
23 Avoca Valley Rd	6	Port Hills Road	Remain green	Half of property within risk area
27 Avoca Valley Rd	6	Port Hills Road	Remain green	Half of property within risk area
31 Avoca Valley Rd	6	Port Hills Road	Remain green	Touching risk area
8 Gilders Grove	6	Port Hills Road	Remain green	Less than half of property within risk area
50 Avoca Valley Rd	7	Avoca Valley	Remain green	More than half of property within risk area
54 Avoca Valley Rd	7	Avoca Valley	Remain green	Touching Risk Area
66 Avoca Valley Rd	7	Avoca Valley	Remain red	Touching Risk Area
73 Avoca Valley Rd	7	Avoca Valley	Remain green	Less than half of property within risk area
77 Avoca Valley Rd	7	Avoca Valley	Remain green	Less than half of property within risk area
79 Avoca Valley Rd	7	Avoca Valley	Remain green	Less than half of property within risk area
87 Avoca Valley Rd	7	Avoca Valley	Remain green	Less than half of property within risk area
48 Horotane Valley Rd	8	Horotane Valley	Rec: red to green	Less than half of property within risk area
49 Horotane Valley Rd	8	Horotane Valley	Remain green	Less than half of property within risk area
66 Flinders Rd	9	Bridle Path Rd (1)	Remain green	More than half of property within risk area
68 Flinders Rd	9	Bridle Path Rd (1)	Remain green	More than half of property within risk area
74 Flinders Rd	9	Bridle Path Rd (1)	Remain green	More than half of property within risk area
76 Flinders Rd	9	Bridle Path Rd (1)	Remain green	More than half of property within risk area
40 Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	Less than half of property within risk area



Address(es) of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
26A Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	Less than half of property within risk area
22 Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	More than half of property within risk area
10 Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	Less than half of property within risk area
10A Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	Less than half of property within risk area
3 Bridle Path Rd	9	Bridle Path Rd (1)	Remain green	Touching risk area
52 Morgans Valley	10	Morgans Valley	Remain green	More than half of property within risk area
17 Morgans Valley	10	Morgans Valley	Remain green	Less than half of property within risk area
19 Morgans Valley	10	Morgans Valley	Remain green	Less than half of property within risk area
21 Morgans Valley	10	Morgans Valley	Remain green	Touching risk area
23B Morgans Valley	10	Morgans Valley	Remain green	Touching risk area
87 Morgans Valley	10	Morgans Valley	Remain green	All of property within risk area
70 Morgans Valley	10	Morgans Valley	Remain green	All of property within risk area
70A Morgans Valley	10	Morgans Valley	Remain green	More than half of property within risk area
56 Morgans Valley	10	Morgans Valley	Remain red	Touching risk area
58 Morgans Valley	10	Morgans Valley	Remain red	Less than half of property within risk area
75 Morgans Valley	10	Morgans Valley	Remain green	Less than half of property within risk area
144 Bridle Path Rd	11	Bridle Path Rd (2)	Remain green	Less than half of property within risk area
92 Bridle Path Rd	11	Bridle Path Rd (2)	Remain green	Less than half of property within risk area
116 Bridle Path Rd	11	Bridle Path Rd (2)	Remain green	More than half of property within risk area
96 Bridle Path Rd	11	Bridle Path Rd (2)	Remain green	More than half of property within risk area
182 Cannon Hill Crescent	12	Bridle Path Rd (3)	Remain green	Half of property within risk area
238 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	More than half of property within risk area
154 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	Less than half of property within risk area
242 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	Less than half of property within risk area
221 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	Less than half of property within risk area

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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
225 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	Less than half of property within risk area
201 Bridle Path Rd	12	Bridle Path Rd (3)	Remain green	Touching risk area
2 Hammerton Lane	12	Bridle Path Rd (3)	Remain green	Less than half of property within risk area
3 Quarry Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
7 Quarry Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
9 Quarry Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
11 Quarry Rd	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
54 Main Rd	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
1/20 McCormacks Bay Rd	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
2/20 McCormacks Bay Rd	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
18 McCormacks Bay Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
24 McCormacks Bay Rd	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
27 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
29 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
31 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
33 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Touching EQ event lines
35 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Touching EQ event lines
37 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Touching EQ event lines
57 Mt Pleasant Rd	13	Mt Pleasant	Remain green	Cliff Collapse Area
28 Aratoro Pl	13	Mt Pleasant	Remain green	Touching Cliff Collapse Area
8 Virginia Lane	15	Virginia Lane	Remain green	Less than half of property within risk area
10 Virginia Lane	15	Virginia Lane	Remain green	Less than half of property within risk area
11 Virginia Lane	15	Virginia Lane	Remain green	Touching risk area
12 Virginia Lane	15	Virginia Lane	Remain green	Touching risk area
20 Glenstrae Rd	15	Virginia Lane		Obscured from map
22 Glenstrae Rd	15	Virginia Lane		Obscured from map
7 Main Rd	16	Redcliffs (4)	Remain green	Touching Cliff Collapse Area
17 Main Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
19 Main Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
122 McCormacks Bay Rd	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area - One Green property among many red
150 McCormacks Bay Rd	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
154 McCormacks Bay Road	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area



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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
11 Glenstrae Rd	16	Redcliffs (1)	Remain green	Touching EQ event lines
15 Glenstrae Rd	16	Redcliffs (1)	Remain green	Touching EQ event lines
1 Glenstrae Rd	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
5 Glenstrae Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
7 Glenstrae Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
17 Glenstrae Rd	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
19 Glenstrae Rd	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
29 Glenstrae Road	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
136 Main Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
136C Main Rd	16	Redcliffs (1)	Remain green	Cliff Collapse Area
6 Balmoral Lane	16	Redcliffs (1)	Rec: green > red	Touching EQ event lines
10 Balmoral Lane	16	Redcliffs (1)	Remain green	Touching EQ event lines
10A Balmoral Lane	16	Redcliffs (1)	Remain green	Touching EQ event lines
11 Balmoral Lane	16	Redcliffs (1)	Remain green	Cliff Collapse Area and EQ Event Lines
15 Balmoral Lane	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area and EQ Event Lines
17 Balmoral Lane	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area and EQ Event Lines
19 Balmoral Lane	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area and EQ Event Lines
35 Balmoral Lane	16	Redcliffs (1)	Remain green	Touching Cliff Collapse Area
31 Glendevera Terrace	16	Redcliffs (1)	Remain red	Touching EQ event lines
26 Glendevera Terrace	16	Redcliffs (1)	Remain green	Touching EQ event lines
32A Raekura Place	16	Redcliffs (1)	Remain green	Touching cliff collapse area
2 Cave Terrace	17	Redcliffs (2)	Remain green	Cliff Collapse Area
2A Cave Tce	17	Redcliffs (2)	Remain green	Cliff Collapse Area
200 Main Rd	17	Redcliffs (2)	Remain green	Cliff Collapse Area
22A Glendevera Terrace	17	Redcliffs (2)	Remain green	Cliff Collapse Area
12 Defender Lane	17	Redcliffs (2)	Remain red	Touching EQ event lines
14 Defender Lane	17	Redcliffs (2)	Remain red	Touching EQ event lines
10 Defender Lane	17	Redcliffs (2)	Remain red	Touching EQ event lines
12 Cliff St	18	Moncks Bay	Remain red	Touching cliff collapse area
14 Cliff St	18	Moncks Bay	Remain green	Touching Cliff Collapse area
242 Main Rd	18	Moncks Bay	Remain green	Touching Cliff Collapse Area
19A Bay View Rd	18	Moncks Bay	Remain green	Touching EQ event lines

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
71 Bay View Rd	18	Moncks Bay	Remain green	More than half of property within risk area
1 Red Rock Lane	18	Moncks Bay	Remain green	Less than half of property within risk area
4 Red Rock Lane	18	Moncks Bay	Remain green	Touching risk area
9 Red Rock Lane	18	Moncks Bay	Remain green	Less than half of property within risk area
10 Red Rock Lane	18	Moncks Bay	Remain green	Less than half of property within risk area
23 Red Rock Lane	18	Moncks Bay	Remain green	Less than half of property within risk area
31 Bay View Rd	18	Moncks Bay	Remain green	Less than half of property within risk area
67A Bay View Rd	18	Moncks Bay	Remain green	Less than half of property within risk area
69A Bay View Rd	18	Moncks Bay	Rec: red > green	All of property within risk area
6 Red Rock Lane	18	Moncks Bay	Remain green	More than half of property within risk area
16 Hurst Seager Lane	18	Moncks Bay	Remain green	Less than half of property within risk area
254A Main Road	18	Moncks Bay	Remain green	Less than half of property within risk area
256 Main Road	18	Moncks Bay	Remain green	Touching EQ event lines
9 Cliff Street	18	Moncks Bay	Remain green	Less than half of property within risk area
5 The Spur	19	Kinsey Terrace	Remain green	Touching Cliff Collapse area and EQ Event Lines
6 The Spur	19	Kinsey Terrace	Remain green	Touching Cliff Collapse area and EQ Event Lines
1 Clifton Terrace	19	Kinsey Terrace	Remain green	Touching Cliff Collapse area
27 Clifton Tce	19	Kinsey Terrace	Remain green	Touching EQ event lines
2 Kinsey Tce	19	Kinsey Terrace	Remain red	Touching EQ event lines
22 Kinsey Tce	19	Kinsey Terrace	Remain green	Touching EQ event lines
24A Kinsey Tce	19	Kinsey Terrace	Remain red	Touching EQ event lines
274 Main Rd	19	Kinsey Terrace	Remain green	Touching EQ event lines
276 Main Rd	19	Kinsey Terrace	Remain green	Touching EQ event lines
280A Main Rd	19	Kinsey Terrace	Remain red	Touching EQ event lines
1/278 Main Rd	19	Kinsey Terrace	Remain green	Touching EQ event lines
26 Kinsey Tce	19	Kinsey Terrace	Remain red	Touching EQ event lines
272 Main Rd	19	Kinsey Terrace	Remain green	Touching EQ event lines
264 Main Road	19	Kinsey Terrace	Remain green	Touching Cliff Collapse Area
266 Main Rd	19	Kinsey Terrace	Remain green	Cliff Collapse Area
268 Main Rd	19	Kinsey Terrace	Remain green	Cliff Collapse Area

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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
1 Mulgans Track	19	Kinsey Terrace	Remain green	Cliff Collapse Area
5 Richmond Hill Rd	20	Richmond Hill Rd	Remain green	Touching Cliff Collapse area
Bowling club on Richmond Hill Rd	20	Richmond Hill Rd	Remain green	Touching Cliff Collapse Area
69 Wakefield Ave	21	Wakefield (1)	Remain green	Touching risk area
83 Wakefield Ave	21	Wakefield (1)	Remain green	Touching risk area
1/91 Wakefield Ave	21	Wakefield (1)	Remain green	More than half of property within risk area
93 Wakefield Ave	21	Wakefield (1)	Remain green	Less than half of property within risk area
97 Wakefield Ave	21	Wakefield (1)	Remain green	Less than half of property within risk area
4 Campbell Street	21	Wakefield (1)	Rec: red > green	Half of property within risk area
2 Denman Street	21	Wakefield (1)	Rec: red > green	More than half of property within risk area
44 Sumnervale Dr	22	Wakefield (2)	Remain red	Touching risk area
1 Finnsarby Pl	22	Wakefield (2)	Remain green	Touching risk area
4 Finnsarby Pl	22	Wakefield (2)	Remain green	Touching risk area
1/8 Finnsarby Pl	22	Wakefield (2)	Remain green	Less than half of property within risk area
8 Finnsarby Pl	22	Wakefield (2)	Remain green	Less than half of property within risk area
10 Finnsarby Pl	22	Wakefield (2)	Remain green	Less than half of property within risk area
1/12 Finnsarby Pl	22	Wakefield (2)	Remain green	Less than half of property within risk area
14 Finnsarby Pl	22	Wakefield (2)	Remain green	Touching risk area
100A Wakefield Ave	22	Wakefield (2)	Remain green	Within risk area
106 Wakefield Ave	22	Wakefield (2)	Remain green	Touching risk area
108 Wakefield Ave	22	Wakefield (2)	Remain green	Touching risk area
112 Wakefield Ave	22	Wakefield (2)	Remain green	Touching risk area
114 Wakefield Ave	22	Wakefield (2)	Remain green	Touching risk area
124 Wakefield Ave	22	Wakefield (2)	Remain green	Less than half of property within risk area
69 Ocean View Tce	22	Wakefield (2)	Remain green	More than half of property within risk area
19 Ocean View Tce	23	Sumnervale	Remain green	Touching risk area
106 Sumnervale Dr	23	Sumnervale	Rec: green > red	Touching risk area (only just)
48 Heberden Ave	24	Heberden (1)	Rec: green > red	Less than half of property in risk area
68 Heberden Ave	24	Heberden (1)	Remain green	Touching risk area
66 Heberden Ave	24	Heberden (1)	Remain green	Touching risk area
68 Heberden Ave	24	Heberden (1)	Remain green	Touching risk area
74 Heberden Ave	24	Heberden (1)	Remain green	Touching risk area
40 Campbell Street	24	Heberden (1)	Remain green	Touching risk area



Release

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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with area of risk
38B Truro Street	24	Heberden (1)	Remain green	Touching risk area
101 Heberden Ave	24	Heberden (1)	Remain green	More than half of property in risk area
103 Heberden Ave	24	Heberden (1)	Remain green	Touching risk area
1 Awaroa Ln	24	Heberden (1)	Remain green	Touching risk area
2 Awaroa Ln	24	Heberden (1)	Remain green	Touching risk area
5 Awaroa Ln	24	Heberden (1)	Remain green	Within risk area
61 Heberden Ave	24	Heberden (1)	Remain green	Less than half of property within risk area / Touching EQ Event Lines
2/55 Heberden Ave	24	Heberden (1)	Remain green	Touching EQ event lines
1/55 Heberden Ave	24	Heberden (1)	Remain green	Touching EQ event lines
51B Heberden Ave	24	Heberden (1)	Remain green	Cliff Collapse Area / Touching EQ event lines
51A Heberden Ave	24	Heberden (1)	Remain green	Cliff Collapse Area / Touching EQ event lines
51C Heberden Ave	24	Heberden (1)	Remain green	Cliff Collapse Area / Touching EQ event lines
51 Heberden Ave	24	Heberden (1)	Remain green	Touching EQ event lines
72 Colenso St	24	Heberden (1)	Remain green	Less than half of property within risk area
21 Heberden Ave	25	Heberden (2)	Remain green	Cliff Collapse area
23 Heberden Ave	25	Heberden (2)	Remain green	Cliff Collapse area
35 Heberden Ave	25	Heberden (2)	Remain green	Cliff Collapse Area
37 Heberden Ave	25	Heberden (2)	Remain green	Touching EQ event lines
39 Heberden Ave	25	Heberden (2)	Remain green	Touching EQ event lines
3 Heberden Ave	25	Heberden (2)	Remain green	Touching Cliff Collapse Area
4 Heberden Ave	25	Heberden (2)	Remain green	Cliff Collapse Area
6 Heberden Ave	25	Heberden (2)	Remain green	Touching Cliff Collapse Area
147 Esplanade Ave	25	Heberden (2)	Remain green	Touching Cliff Collapse Area
147A Esplanade Ave	25	Heberden (2)	Remain green	Touching Cliff Collapse Area
4 Scarborough Rd	25	Heberden (2)	Remain green	More than half of property in Cliff Collapse Area
54 Scarborough Rd	25	Heberden (2)	Remain green	Touching cliff collapse area
2 Scarborough Rd	26	Whitewash Head	Remain green	Cliff Collapse Area
1 Whitewash Head	26	Whitewash Head	Remain green	Cliff Collapse Area
2 Whitewash Head	26	Whitewash Head	Remain green	Cliff Collapse Area / Touching EQ event lines
4 Whitewash Head	26	Whitewash Head	Remain green	Touching EQ event lines

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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
25B Taylors Mistake Rd	26	Whitewash Head	Remain green	Touching EQ event lines
21 Taylors Mistake Rd	26	Whitewash Head	Remain green	Touching EQ event lines
23B Taylors Mistake Rd	26	Whitewash Head	Remain green	Less than half of property in risk area
2 Flowers Track	26	Whitewash Head	Remain green	Touching EQ event lines
3 Flowers Track	26	Whitewash Head	Remain green	Touching EQ event lines
5 Flowers Track	26	Whitewash Head	Remain green	Touching EQ event lines
May be more properties between 25B Taylors Mistake Rd and Tirohanga Lane (Map 27) that are affected by risk lines, which cannot be seen on maps currently.	26	Whitewash Head		
3 Tirohanga Lane	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
5 Tirohanga Lane	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
26 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
23 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
24 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
22 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
20 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
16 Smugglers Cove	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
91 Taylors Mistake Rd	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
93 Taylors Mistake Rd	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
8 Appian Lane	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
9 Appian Lane	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
115 Taylors Mistake Rd	27	Taylors Mistake Rd	Remain green	Touching EQ event lines
125 Taylors Mistake Rd	27	Taylors Mistake Rd	Remain green	Touching EQ event lines

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Address or identified properties	Map	Area	Recommended zoning	Relationship with area of risk
May be more properties on coast between Maps 27 and 28 that are affected by risk lines which cannot be seen on maps.	27	Taylor's Mistake Rd		
147 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	More than half of property within risk area
155 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	More than half of property within risk area
157 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Less than half of property within risk area
159 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	More than half of property within risk area
161A Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Less than half of property within risk area
209 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Touching EQ event lines
233 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Touching EQ event lines
231 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Cliff Collapse Area
211 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Touching Cliff Collapse Area
223 Taylor's Mistake Rd	28	Hobsons Bay	Remain green	Touching Cliff Collapse Area
14 Gilmour Tce	31	Gilmour Tce	Rec: red > green	Touching risk area
16 Gilmour Tce	31	Gilmour Tce	Rec: red > green	Less than half of property within risk area
18 Gilmour Tce	31	Gilmour Tce	Rec: red > green	Less than half of property within risk area
10 Sumner Road	31	Gilmour Tce	Remain green	Touching Cliff Collapse Area
12 Sumner Road	31	Gilmour Tce	Remain green	Cliff Collapse Area
16 Sumner Road	31	Gilmour Tce	Remain green	Cliff Collapse Area
20 Sumner Road	31	Gilmour Tce	Remain green	Cliff Collapse Area
17-25 Gladstone Quay	31	Gilmour Tce	Remain green	Cliff Collapse Area
27 Gladstone Qy	31	Gilmour Tce	Remain green	Cliff Collapse Area
29 Gladstone Qy	31	Gilmour Tce	Remain green	Cliff Collapse Area
31 Gladstone Qy	31	Gilmour Tce	Remain green	Cliff Collapse Area
33 Gladstone Qy	31	Gilmour Tce	Remain green	Cliff Collapse Area
35 Gladstone Qy	31	Gilmour Tce	Remain green	Cliff Collapse Area
19 Crossland Tce	32	Brenchley Rd	Rec: red > green	More than half of property within risk area
22 Crossland Tce	32	Brenchley Rd	Remain green	Touching risk area
3 Hyllton Heights	32	Brenchley Rd	Remain green	Touching risk area
16 Hyllton Heights	32	Brenchley Rd	Remain green	Most of property within risk area
26 College Road	32	Brenchley Rd	Remain green	Half of property in risk area



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Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
7 Endeavour Pl	33	Endeavour Place	Rec: red > green	Most of property within risk area
1 Norton Close	33	Endeavour Place	Remain green	Less than half of property within risk area
4 Norton Close	33	Endeavour Place	Remain green	Less than half of property within risk area
2A Norton Close	33	Endeavour Place	Remain green	More than half of property within risk area
10A Upham Tce	33	Endeavour Place	Remain green	More than half of property within risk area
91 Jacksons Rd	34	Hawkhurst Rd	Remain green	Less than half of property within risk area
60 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	More than half of property within risk area
62 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	More than half of property within risk area
63 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	Less than half of property within risk area
64 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	More than half of property within risk area
66 Hawkhurst Rd	34	Hawkhurst Rd	Rec: red > green	More than half of property within risk area
65 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	Less than half of property within risk area
71 Hawkhurst Rd	34	Hawkhurst Rd	Remain green	More than half of property within risk area
23 Ross Parade	34	Hawkhurst Rd	Remain green	More than half of property within risk area
23A Ross Parade	34	Hawkhurst Rd	Remain green	More than half of property within risk area
25 Ross Parade	34	Hawkhurst Rd	Remain green	More than half of property within risk area
34 Bridle Path	35	Voelas/Walkers Rd	Remain green	Less than half of property within risk area
8A Harmans Road	35	Voelas/Walkers Rd	Remain green	Less than half of property within risk area
10 Harmans Rd	35	Voelas/Walkers Rd	Rec: red > green	Touching risk area
38 Park Tce	36	Buxtons Rd	Remain green	More than half of property within risk area
14 Buxtons Rd	36	Buxtons Rd	Remain green	Less than half of property within risk area
19 Buxtons Rd	36	Buxtons Rd	Remain green	Touching risk area
80 Cressy Tce	36	Buxtons Rd	Remain green	Touching risk area
78 Cressy Tce	36	Buxtons Rd	Remain green	Touching risk area
48 Godley Quay	36	Buxtons Rd	Remain green	Cliff Collapse Area
12 Park Tce	37	Naval Point	Remain green	Touching Cliff Collapse area

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
16 Park Tce	37	Naval Point	Remain green	Touching Cliff Collapse area
271 Governors Bay Rd	39	Rapaki Bay	Remain green	More than half of property within risk area
261 Governors Bay Rd	39	Rapaki Bay	Remain green	More than half of property within risk area
236 Governors Bay Rd	39	Rapaki Bay	Remain green	More than half of property within risk area
399 Governors Bay Rd	40	Governors Bay Rd	Remain green	Less than half of property within risk area
445 Governors Bay Rd	40	Governors Bay Rd	Remain green	Touching risk area
460 Governors Bay Rd	40	Governors Bay Rd	Remain green	More than half of property within risk area
522 Governors Bay Rd	41	Maori Gardens	Remain green	More than half of property within risk area
524 Governors Bay Rd	41	Maori Gardens	Remain green	More than half of property within risk area
42 Hays Rise	42	Zephyr Tce	Remain green	More than half of property within risk area
42A Hays Rise	42	Zephyr Tce	Remain green	More than half of property within risk area
34 Hays Rise	42	Zephyr Tce	Remain green	More than half of property within risk area
28 Hays Rise	42	Zephyr Tce	Remain green	Touching risk area
564 Dyers Pass Rd	42	Zephyr Tce	Remain green	Within risk area
571A Dyers Pass Rd	42	Zephyr Tce	Remain green	Touching risk area
751 Dyers Pass Rd	42	Zephyr Tce	Remain green	Less than half of property within risk area
1051B Dyers Pass Rd	42	Zephyr Tce	Remain green	Less than half of property within risk area
1051A Dyers Pass Rd	42	Zephyr Tce	Remain green	Less than half of property within risk area
1057 Dyers Pass Rd	42	Zephyr Tce	Remain green	Less than half of property within risk area
May be more properties in area of risk towards the end of Hays Rise that are out of sight on this map	42	Zephyr Tce	Remain green	
20 Hays Rise	43	Leading Light Lane	Remain green	Touching risk area
9 Hays Rise	43	Leading Light Lane	Remain green	Touching risk area
9A Hays Rise	43	Leading Light Lane	Remain green	Touching risk area
5 Leading Light Lane	43	Leading Light Lane	Remain green	Touching risk area

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
6 Leading Light Lane	43	Leading Light Lane	Remain green	Less than half of property within risk area
7 Leading Light Lane	43	Leading Light Lane	Remain green	Touching risk area
9 Leading Light Lane	43	Leading Light Lane	Remain green	Within risk area
48 Chrystalwood Lane	43	Leading Light Lane	Remain green	More than half of property within risk area
50 Chrystalwood Lane	43	Leading Light Lane	Remain green	Less than half of property within risk area
8 Glas Brae	43	Leading Light Lane	Remain green	Touching risk area
15 Bay Heights	43	Leading Light Lane	Remain green	More than half of property within risk area
17 Bay Heights	43	Leading Light Lane	Remain green	More than half of property within risk area
21 Bay Heights	43	Leading Light Lane	Remain green	More than half of property within risk area
22 Bay Heights	43	Leading Light Lane	Remain green	More than half of property within risk area
39 The Terrace	43	Leading Light Lane	Remain green	Less than half of property within risk area



Appendix B – Properties which appear to be outside any area of identified risk

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
4A Avoca Valley Rd	6	Port Hills Road	Rec: green > red	Outside risk area
2/51 St Andrews Hill Rd	13	Mt Pleasant	Rec: green > red	Not touching area of risk
51C St Andrews Hill Rd	13	Mt Pleasant	Rec: green > red	Not touching area of risk
10 Quarry Rd	13	Mt Pleasant	Rec: green > red	Not touching area of risk
76 McCormacks Bay Rd	14	Maffey's Rd	Rec: green > red	Not touching area of risk
27 Glendevere Terrace	16	Redcliffs (1)	Remain red	Not touching EQ event lines
27A Glendevere Terrace	16	Redcliffs (1)	Remain red	Not touching EQ event lines
48 Balmoral Ln	16	Redcliffs (1)	Remain red	Not touching EQ event lines
16 Egnot Heights	17	Redcliffs (2)	Remain red	Not touching Cliff Collapse Area or EQ Event Lines
4 Moncks Spur Rd	17	Redcliffs (2)	Rec: green > red	Not touching Cliff Collapse Area or EQ Event Lines
8 Moncks Spur Rd	17	Redcliffs (2)	Rec: green > red	Not touching Cliff Collapse Area or EQ Event Lines
50 Clifton Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ Event Lines
51 Clifton Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ Event Lines
49 Clifton Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ event lines
39 Clifton Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ Event Lines
48 Clifton Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ Event Lines
1 Kinsey Tce	19	Kinsey Terrace	Remain red	Not touching Cliff Collapse Area or EQ event lines
98 Richmond Hill Rd	20	Richmond Hill Rd	Remain red	Outside risk area
1/20 Nayland Street	20	Richmond Hill Rd	Remain red	Outside risk area
2/12 Finnsarby Pl	22	Wakefield (2)	Remain green	Not touching risk area
1/104 Sumnervale Dr	23	Sumnervale	Rec: green > red	Outside risk area
2/104 Sumnervale Dr	23	Sumnervale	Rec: green > red	Outside risk area
342 Marine Drive	44	Marine Drive	Rec: green > red	Outside risk area
336 Marine Drive	44	Marine Drive	Rec: green > red	Outside risk area
334 Marine Drive	44	Marine Drive	Rec: green > red	Outside risk area

Addresses of identified properties	Map	Area	Recommended zoning	Relationship with areas of risk
332 Marine Drive	44	Marine Drive	Rec: green > red	Outside risk area

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