

SUBMISSION # 949 Proposed District Plan regarding Chapter 5 Natural Hazards.

PROPERTY: 23K Walkers Road,  
Lyttelton,  
CHRISTCHURCH 8082.

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To: Christchurch City Council  
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Name of submitter: Julia Margaret Oakley  
23K Walkers Road  
Lyttelton  
Christchurch 8082

18.12.2014.

I am writing to seek further relief regarding my initial submission # 949 on the proposed Natural Hazards chapter of the Christchurch District Plan Review, proposed by the Christchurch the Christchurch City Council.

I have now joined as a supporter of Pearse Smyth's(Cameron & Co) group in submission # FS1243 & # FS 1268 so that I will be legally represented by Pearse Smyth and expert Geotechnical engineer David Bell.

The current Port Hills zoning review map extends the hazard zones across the majority of the rural part of my property at 23k Walkers Road and the northwest tip of the residential part of the property. This has resulted in my receiving a letter from Christchurch City Council stating that my property is shown as Rockfall Hazard Management Areas 1 and 2 in the draft district plan.

This submission seeks a change to the boundaries of the Rockfall Hazard Management Areas(RHMA) 1 & 2 to exclude my property from these areas.

The specific provisions of the chapter this submission relates to are:

5.2-General Natural hazards Policies.

5.5-Policies for slope instability areas.

5.10-Port Hills and Banks Peninsula slope instability rules.

Planning map 52

REASON FOR SUBMISSION:

1-My property is located within the'Green Zone' but with the introduction of the chapter relating to slope instability it would become subject to RHMA controls.

2-The Council has not taken into account available information when locating the boundary lines for the hazard areas on my property. PHGG Assessment of GNS model accompanies this submission (Appendix 1).

2.1-Port Hills Geotechnical Group(PHGG) Assessment of GNS model applicability for 23K Walkers Road concludes that the individual site risk is less than the GNS suburb-scale value.

2.2-PHGG description of suburb average rockfall source as major continuous outcrop does not apply to my property which is commented on as 'diminished source-discontinuous outcrop.'

3-Geotechnical Engineer David Bell will provide a detailed report on the site specific risk to my property and his expert report will be submitted at a later date to support this submission at hearings.

3.2-Site specific Geotechnical investigations by David Bell(Appendix 2)and Coffey Geotech. engineer Adam Broadbent(Appendix 3)confirm that no rockfall runout entered 23K Walkers Road from 22 Feb. 2011 earthquake or subsequent EQs and support the removal of my property from RHMA 1 & 2.

DECISION :

I seek a change in the hazard lines so that my property is not within the RHMA 1 or 2.

Yours sincerely,

Julia Oakley

SUBMISSION #949 Proposed District Plan

## APPENDIX 1

PHGG GNS MODEL Site specific to 23K Walkers road, Lyttelton.

**Port Hills Geotechnical Group  
Assessment of GNS Model Applicability for Individual Site**

Sector: 6 Address: 23 K Walkers Rd Current S124 Notice?  yes  no  
(Section)

GNS Risk<sub>LOL</sub> at Dwelling\*:   $10^{-2}$  to  $10^{-3}$    $10^{-3}$  to  $10^{-4}$    $10^{-4}$  to  $10^{-5}$   Less than  $10^{-5}$  (\*Risk Model C)

Measured "F" angle at dwelling: 23° or  Not measurable

Measured "S" angle at dwelling: ~21° or  Not measurable GNS Map "S" angle at dwelling: 23°

Profile of slope above dwelling:  sloping run-out  localised cliff with flat base  slope, flat run-out

Description of suburb average rockfall source: continuous outcrop, major

Did boulder(s) pass or land within 10 m of house  
 Yes  No  
If Yes,  House hit  Landed  Passed  
Previously mapped?  Yes  No

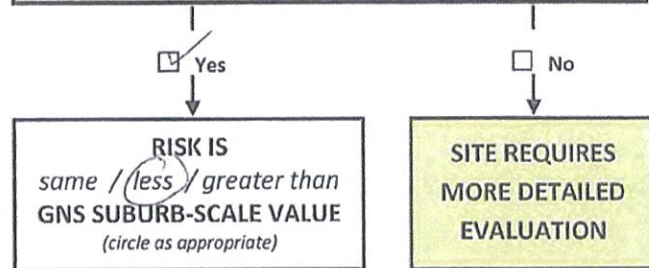
Is "F" angle at dwelling less than GNS shadow angle?  
 Yes  No  Not measurable

Does the rockfall source vary significantly from the suburb average?  
 Yes  No If Yes, describe in Comments  
If Yes, how does this affect risk to dwelling?  
 Increases risk  Decreases risk

Is there a significant topographic feature that influences risk to dwelling?  
 Yes  No  
If Yes,  Ridge  Gully  Flat surface  
How does this affect risk to dwelling?  
 Increases risk  Decreases risk

Are there any other known mass movement issues that could increase risk to dwelling?  
 Yes  No  
 Debris flow  Landslide  Cliff collapse

Based on observations of the site, is it possible to assess whether the site risk is same, greater or less than the GNS suburb-scale value?



Is an S124 Notice Required?  
 Yes  No  
 Cannot make this assessment from available information

Comments:  
diminished source - discontinuous minor outcrop

Assessed for CCC/Port Hills Geotechnical Group by: Kelly Walker Kelly Walker  
Rori Green Rori Green

Date: 20 / 04 / 2012  
1220



