

Lianne Darby

From: Z1649206 MWH Hazards Team <SM-AP-NZ-MWHHazardsTeam@mwhglobal.com>
Sent: Monday, 26 September 2016 02:19 p.m.
To: Lianne Darby
Subject: RE: 111A Cliffs Road - SUB-2016-84 & LUC-2016-430

Hello Lianne

There are some hazards associated with the plot to the north of the proposed subdivision, that property contains steep slopes.

However, there is nothing relating to the proposed subdivision itself.

- None of the property is steeper than 15°.
- All of proposed Lot 2 is less than 12° steep.

The primary risks would be associated with "the access to be widened and hard surfaced"

- There is little detail provided in the application for this work, however the application does acknowledge the following:
The legal right of way width is 12m, however, due to the existing topography the formation width varies between approximately 3m and 5m
- The proposed formation width is 5m "where reasonably possible". We understand that the applicant wishes to avoid the need for any shoulder retaining works.
- The road is not intended to be widened towards the cliff face

We see no grounds to decline the application on the basis of known hazards

However, we recommend the following advice.

There is potential for surcharge loading as a result of sideling fill to widen the existing access road, if a 5.0m width is constructed throughout.

- If there are such fills, then slopes may not be filled steeper than 2h:1v (27°) without specific engineering design and construction

Amendments to the existing road alignment may be required, if the current "physical access outside the legal corridor" (Smails Corner) is required to be re-routed. Such work is likely to require excavation into the high side of the road, with associated retaining works.

- All walls retaining over 1.5m, or a surcharge / slope, including terracing, require design, specification and supervision by appropriately qualified person/s
- Where the long-term stability of other's land or structures may rely upon the continued stability of retaining works, the designer must confirm that the retaining structure can be safely demolished following a complete design life without creating hazards for neighbouring properties.

Regards

Lee



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 Geotechnical Engineer

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From: Lianne Darby [<mailto:Lianne.Darby@dcc.govt.nz>]

Sent: Monday, 19 September 2016 2:39 p.m.

To: Resource Consents WWS-BC Comments <resconsent.wwsbc-comments@dcc.govt.nz>; Grant Fisher <Grant.Fisher@dcc.govt.nz>; Lee Paterson <Lee.M.Paterson@mwhglobal.com>; Z1649206 MWH Hazards Team <SM-AP-NZ-MWHHazardsTeam@mwhglobal.com>; Nic Jepson <Nic.Jepson@dcc.govt.nz>; development.contributions@dcc.govt.nz; Barry Knox <Barry.Knox@dcc.govt.nz>

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Another Cliffs Road subdivision to consider.

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