

Kris McGillivray

From: Hendrik Hilhorst (AT) s 9(2)(a)
Sent: Thursday, 10 March 2016 7:35 PM
To: s 9(2)(a)
Cc: Nesh Pillay (AT); Melina Mascarenhas; Tarun Ahuja (AT)
Subject: RE: Section 3 - sea level rise

Hi s 9(2)(a)

The original design memo represented an acceptable recommendation to proceed with a design that resulted in approximately 90 mm of the structure likely to be above the assumed mean high spring tide in 2050. On the basis of the recent 46mm depth decking recommended by the manufacturer it appears we are level with the highest level of the anticipated sea level rise of 200-400mm and weather events could cause inundation.

In section 1 there are sections of the path in a flood plain which could become inundated in severe storm events. Furthermore if we were to raise the level of the boardwalk whilst still using the manufacturer recommended 46mm depth decking we would have to reconstruct both the existing portion of the boardwalk as well as the new section of the boardwalk. This would result in significant increased costs and would not enable a principal recommendation from key stakeholders [Parks, Local Board and Bike Auckland] that the boardwalk remain functional whilst the addition is constructed. The contractor had confirmed this was feasible. Furthermore the effects of a sea level rise of up to 400mm would be significant on the foreshore of the basin in terms of public areas [as referenced in the current management plan], foreshore access as well as private property and would cause measures to be taken to utilise modification options to the current sluice gates which effectively controls water levels lower than mean high springs.

Having said all that, the new circumstances of the decking level will require me to seek confirmation from higher levels within AT.

I will get back to you.

Regards

Hendrik Hilhorst

From: s 9(2)(a)
Sent: Thursday, 10 March 2016 2:12 p.m.
To: Hendrik Hilhorst (AT)
Cc: Nesh Pillay (AT); Melina Mascarenhas
Subject: Section 3 - sea level rise

Hi Hendrik

Terry Hume has reviewed the mitigation list and raised the issue of sea level rise and how the effect is to be mitigated – Melina tells me that the attached design statement was sent to you a few weeks ago and was something you were going to respond on in terms of AT's position.

She tells me that one thing that needs to be corrected in that memo is the final RL on the deck. If a 46mm deep GRP decking is selected, this will mean that the finalised RL will be about the same (RL 1.896) – so the boardwalk could be inundated during a large storm event or due to wave action.

Are you able to advise how you want this treated

s 9(2)(a)



MWH

Level 3 MWH House
111 Carlton Gore Road
PO Box 9176, Newmarket

Tel: s 9(2)(a)

Auckland 1149

Fax: s 9(2)(a)

s 9(2)(a)

www.mwhglobal.com

LIKE US, FIND US and FOLLOW US for the latest updates on MWH news, events and projects



Released under the Official Information Act 1982