



henry&hymas

13 May 2019

Our Ref: 17D83-C1/af

Fraser's Property
PO Box 1669
BONDI JUNCTION NSW 2022

Attention: Layne O'Neill

Dear Layne,

**RE: EASTERN CREEK BUSINESS HUB (SSD 5175 MOD 5 AND SSD 8858)
ROOTY HILL ROAD SOUTH, EASTERN CREEK, NSW
FLOODPLAIN RISK MANAGEMENT STATEMENT**

This letter is in response to the letter from the NSW Office of Environment & Heritage (OEH) (Ref: DOC18/917706) dated 18 January 2019 regarding the State Significant Development (SSD 5175 Mod 5 and SSD 8858). In particular this letter is in response to the queries relating to flooding contained in Item 7 of the letter.

In particular, this letter is in response to the reference that the reporting for the development is inconsistent with Council's latest flood studies by Catchment Simulation Solutions (CSS) dated November 2014 and the Eastern Creek Business Hub Local Probable Maximum Flood Assessment by J Wyndham Prince dated June 2014.

In respect to the CSS flood study, it is acknowledged and understood that the site is affected by the 5% AEP, 1% AEP and the PMF. It is also understood that this flooding is from both mainstream flooding of Eastern Creek and local overland flow from the west of the site. I advise that Henry & Hymas consulted with Blacktown City Council in regards to the flood levels that should be used for the design of the site stormwater including the design of the two On-site Stormwater Detention (OSD) basins. Council confirmed the 1% AEP flood levels that should apply for the outlets of the two basins in an e-mail dated 10 January 2018 (enclosed). We have subsequently reviewed these flood levels provided by Council in relation to the information contained in the CSS flood study and it is clear that the two flood levels provided by Council correlate to the flood levels shown in the CSS flood study. The 1% AEP flood contours provided in Figure 7.3 of the flood study closely match the 1% AEP flood levels of RL39.15m AHD at the outlet of the southern basin and RL37.81m AHD at the outlet of the northern basin provided by Council. On this basis, we believe the site stormwater has been designed in accordance with Council's latest flood studies.

Furthermore, the floor levels for the development lots within the development have been set at no lower than RL42.0m AHD which is well in excess of the maximum 1% AEP flood level of RL39.15m AHD where the site discharges to the culverts that drain to Eastern Creek.





henry&hymas

In regards to the extent of flooding within the site, this flooding is from overland flow for the catchment to the west of the site which is currently conveyed via an open channel through the site. As part of the proposed development, this overland flow will now be conveyed via a realigned open channel that will still convey this upstream catchment through the site. The modelling for this channel was undertaken by J Wyndham Prince and forms part of the flood modelling for the proposed development site.

Finally, in regards to the Eastern Creek Business Hub Local Probable Maximum Flood Assessment by J Wyndham Prince dated June 2014, Figures 4.3, 4.4 and 4.5 of this report indicate that the majority of the developable portion of the site (i.e. the pad sites) are located outside the extent of the PMF or within low hazard extents of the PMF.

I trust this meets your requirements and provides all the information required to close out Item 7 of the letter from the NSW Office of Environment & Heritage. If you have any queries regarding any of the above, please do hesitate to give me a call.

Yours faithfully,

ANDREW FRANCIS

For, and on behalf of,
H & H Consulting Engineers Pty Ltd

Nick Wetzlar

From: Tony Merrilees <Tony.Merrilees@blacktown.nsw.gov.au>
Sent: Wednesday, 10 January 2018 3:01 PM
To: Nick Wetzlar
Subject: Eastern Creek Business Hub

Nick

We have reviewed the latest models that Council has for this area and note the following.

1. 100 year ARI 2 hr storm at peak (approx. 40 min) water surface levels.

Upstream of Southern Culvert = RL 39.2 m AHD
Upstream of Northern Culvert = RL 37.81 m AHD

2. 100 year ARI 6 hr storm at peak (approx. 40 min) water surface levels.

Upstream of Southern Culvert = RL 39.15 m AHD
Upstream of Northern Culvert = RL 37.83 m AHD

I am not sure how this compares to the Wyndam Prince study.

Regards

*Tony Merrilees
Senior Engineer (Drainage) Developments
Blacktown City Council
PO Box 63, Blacktown NSW 2148
Ph (02) 9839 6348*



This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager.

This footnote also confirms that this email message has been swept for the presence of computer viruses.
