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CityScape Planning + Projects  
PO Box 127  
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Attention: Vince Hardy

Dear Vince

**RE: ADDENDUM TO FLOOD IMPACT OF PROPOSED DEVELOPMENT AT CORNER OF CASTLEREAGH ROAD AND WILCHARDS ROAD**

BMT was previously engaged by Penrith Lakes Development Corporation (PLDC) to provide a letter report detailing the flood impact associated with a proposed landform at the corner of Castlereagh Road and WilcharDS Road, as detailed in L.N20917.001.00.pdf dated 28 August 2017.

The client now plans to extend on the development configuration previously assessed in L.N20917.001.00.pdf with the addition of a shed on a raised fill platform as shown in 36363 PAD DESIGN 18-10-16.pdf provided by PLDC. This letter report forms an addendum to L.N20917.001.00.pdf and provides additional commentary addressing flood impacts associated with the addition of the proposed shed on a raised fill platform.

As detailed in L.N20917.001.00.pdf, the proposed landform was incorporated into the TUFLOW model to enable comparison to the baseline flood condition. The modelling demonstrated that the proposed landform had negligible impact on 1% AEP peak flood levels. Based on the findings and conclusions of the TUFLOW modelling previously undertaken for the site, no further modelling was deemed necessary to assess the addition of the proposed shed and fill platform.

Similar to the impact of the wider site landform, the proposed shed and fill platform will have negligible impact on 1% AEP peak flood levels. The negligible impact can be attributed to a combination of the proposed shed and fill platform being located on the fringe of the 1% AEP flood extent, and the portion of available 1% AEP flood storage volume removed by the proposed fill platform being negligible when compared to the available storage across the wider Penrith Lakes system (as shown in Figure 3 in L.N20917.001.00.pdf).

The Flood Planning Level (FPL) for the site under the SEPP (Penrith Lakes Scheme) 1989, based on the TUFLOW 1% AEP peak flood level with an allowance of 1 m of freeboard, is 21.8 m AHD. The proposed finished floor level for the proposed shed, as shown in 36363 PAD DESIGN 18-10-16.pdf, is 21.8 m AHD (i.e. equivalent to the FPL).

We trust the above provides a suitable description of the impact of the proposed shed and fill platform. Please feel free to contact the undersigned to discuss further as required.

Yours Faithfully  
BMT

A handwritten signature in black ink, appearing to read 'J. Eggleton'.

**Joshua Eggleton**  
**Senior Environmental Engineer**

## References

BMT WBM (2015) *Penrith Lakes Scheme Summary Flood Impact Report*. Prepared for Penrith Lakes Development Corporation.