

Our Ref: 222069

Council Ref: DA20/0360

Penrith City Council
601 High Street
PENRITH NSW 2750

28 March 2022

Attention: Lauren Van Etten – Senior Development Assessment Planner**Subject: Proposed Installation of Electricity Generating Works (Battery Storage) Stormwater Management Technical Memo Version 2**

Dear Lauren

In response to Penrith City Council's (PCC) preliminary assessment of the Development Application (DA) and the previously submitted Stormwater Management Technical Memo (Premise Memo), this Stormwater Management Technical Memo Version 2 (Memo V2) will re-evaluate the Premise Civil Plans 222069 rev 5 (Plans Rev5) for a proposed installation of electricity generating works (Battery Storage) at 2235-2249 Castlereagh Road Penrith NSW 2750 (The Site).

The Premise Memo addressed the DA items 2 and 3 and listed below are the adjusted findings in accordance with the proposed works within Plans Rev5:

Item 2. Engineering

- a) The proposed columns displace approximately 43m³ of floodplain storage, sheet C100 of Plans Rev5 show minor site earthworks to remove trap low point within the affected area having a net removal of 52m³
- b) The Premise Memo provides the original sites' floodplain storage as 635m³, the Plans Rev5 now provides 644m³, an increase in floodplain storage of 9m³
- c) As per Premise Memo, the Penrith CBD Overland Flow Study (2015) (Cardno 2015) does not include Part 5 works undertaken in 2008 and 2017 that potentially improve the conveyance of stormwater through the site. The Plans Rev5 elevate all proposed infrastructure clear of the RL25.81AHD flood level and proposes to maintain a similar finish to the existing surface
- d) All proposed works within Plans Rev5 are clear of the existing easement for drainage 3m wide
- e) Updated swept paths are provided for the proposed parking. It is noted the proposed access ramp is as per the battery detail plans and will provide forklift access only

Item 3. Water Sensitive Urban Design

Removal Targets and achieved removal rates are as follows:

- 90% Gross Pollutants – achieved 98.4%
 - 85% Suspended Solids – achieved 94.5%
 - 60% Phosphorus – achieved 66.9%
 - 45% Nitrogen - achieved 55.8%
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- a) MUSIC model includes driveway and raised slab to be treated by a mechanical devices Ocean Guard (pit insert) and a Jellyfish unit or similar
 - b) Standard MUSIC parameters and nodes were used, both the Ocean Guard and Jellyfish nodes were sourced from Ocean Protect
 - c) Results are included as a print screen snippet

The proposed works within the Plans Rev5 comply with the Cardno 2015 and WSUD requirements.

Yours Faithfully



MICHA ZESCHKE

CPEng NER APEC Engineer IntPE(Aust)

Chartered Professional Engineer

ATTACHMENTS/INCLUSIONS

- Plans Rev5
- MUSIC Results snippet
- MUSIC file