Locality Plan
Introduction

• See Engeny Report dated 13 February 2019
• Previous report dated 14/12/2018 was superseded due to additional flow data received from Melbourne Water
Engeny 2019 Report Conclusions

From this report we wish for the Committee to note the following conclusions from this report:

1. The subject site (321 Old Dandenong Road) is located on the Old Dandenong Road Drain on the west side of the proposed Mordialloc Bypass.

2. Downstream of the subject site the Old Dandenong Road Drain flows through the Mordialloc Bypass Right of Way, across Centre Dandenong Road and then downstream into a formed floodway through Redwood Gardens Estate.

3. The Old Dandenong Road Drain floodway through Redwood Gardens Estate contains the 1 % AEP flood flow.

4. The EES shows an existing conditions flood map that shows significant flooding across the subject site on the south side of Old Dandenong Road Drain for a 1 % AEP flood.

5. The flood map exhibited with the EES was produced using a flood model developed on behalf of Melbourne Water in 2013 and uses LiDAR terrain data that is likely to have been captured in 2006/07, and possibly ground survey of the Old Dandenong Road Drain, for which the capture date is unknown.

6. Survey from 2017 shows the terrain on the subject site has been altered since the 2006-07 LiDAR data capture.

7. Revised flood modelling undertaken by Engeny found that some areas of the site that were shown to be flooded in the Mordialloc Bypass EES and the Melbourne Water flood information are now not flood prone. This is due to the change in surface levels that has occurred on the site between the capture of the 2006-07 LiDAR and the 2017 ground survey.

8. Construction of the Mordialloc Bypass is expected to require an upgrade of the Old Dandenong Road Drain culvert under Centre Dandenong Road and the Old Dandenong Road Drain channel within the Mordialloc Bypass Right of Way.

9. It is expected that future flooding of 321 Old Dandenong Road will be defined by works on the Old Dandenong Road Drain similar to the works that are expected on the drain as part of the Mordialloc Bypass Road and similar to the works that have been undertaken through Redwood Gardens in order to contain the 1 % AEP flow to a dedicated drainage reserve with a channel with improved flood conveyance compared to existing conditions.

We ask that the Committee acknowledge these issues in their report and report that:

(1) The Mordialloc Bypass will need to adequately upgrade Old Dandenong Road Drain in the vicinity of Centre Dandenong Drain in consultation with Melbourne Water to prevent flooding of the Mordialloc Bypass Road and Centre Dandenong Road and to adequately cater for the drainage of upstream properties, and

(2) The flood map exhibited with the EES for Old Dandenong Road Drain through 321 Centre Dandenong Road is not the “final word” in relation to the flooding of that property.
Mordialloc Bypass land acquisition (green) and Melbourne Water 27.19m wide main drain easement (pink)
Photographs

- Redwood Gardens Channel and Culvert
Photographs

• Centre Dandenong Road upstream channel and culvert

• Likely upgrade within 27.19m easement to suit MW

• Likely upgrade to meet AustRoads / MW requirements