

1431-17-01-v01
15 July 2014



Western Downs Regional Council
PO Box 551
Dalby QLD 4405
Attn: Mr Cameron Ives

ABN: 60 093 377 283
ACN: 093 377 283

Dear Cameron,

SUBJECT: UPDATED 1 IN 100 AEP FLOOD MAPS

Western Downs Regional Council (WDRC) asked Water Technology to update the *2014 Western Downs Flood Study* flood maps for Dalby, Chinchilla and Miles to include significant topography changes that have occurred since the study was completed. To prepare this we have taken the original LIDAR, flown in 2010, and added survey data for a number of constructed developments. WDRC provided advice on which properties to include and information regarding the topography changes. Changes in topography for Dalby, Chinchilla and Miles are shown in Figure 1, Figure 5 and Figure 9, respectively.

This report provides the results for the 1 in 100 AEP flood. Results for the 1 in 10, 1 in 20 and 1 in 50 AEP floods will be provided in a future report.

Table 1 summarises the figures provided in this report.

We trust these results are acceptable. For and on behalf of Water Technology Pty Ltd,

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Richard Walton
PhD BE(Hons)(Agricultural) MIEAust CPEng RPEQ
Senior Principal Engineer

Table 1: Map Summary

Figure	Location	Description
01	Dalby	Change in Topography
02		1 in 100 AEP Depth
03		1 in 100 AEP Hazard
04		Water Surface Level Difference
05	Chinchilla	Change in Topography
06		1 in 100 AEP Depth
07		1 in 100 AEP Hazard
08		Water Surface Level Difference
09	Miles	Change in Topography
10		1 in 100 AEP Depth
11		1 in 100 AEP Hazard
12		Water Surface Level Difference

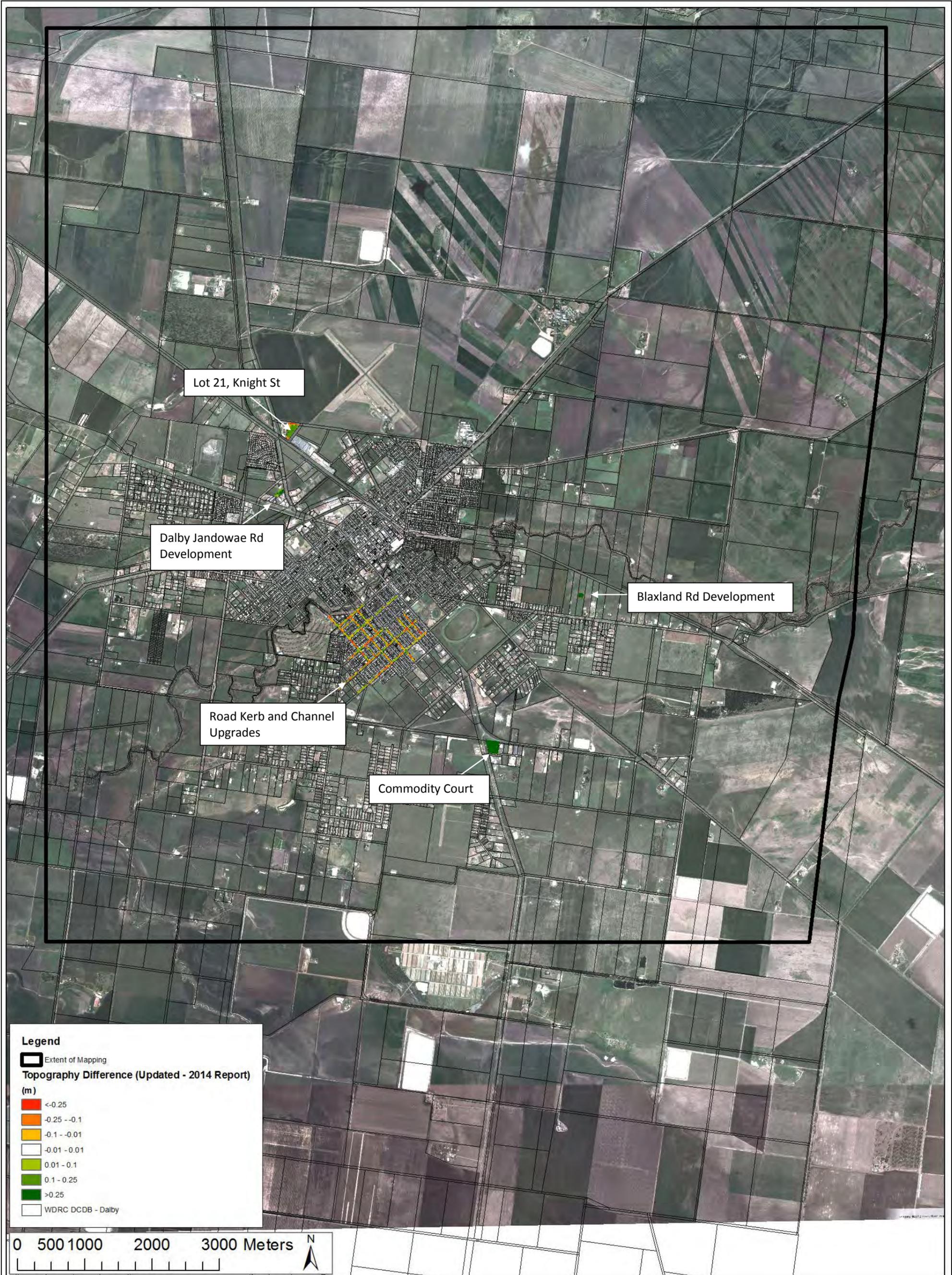


Figure 1 Topography Difference between Updated and 2014 Report

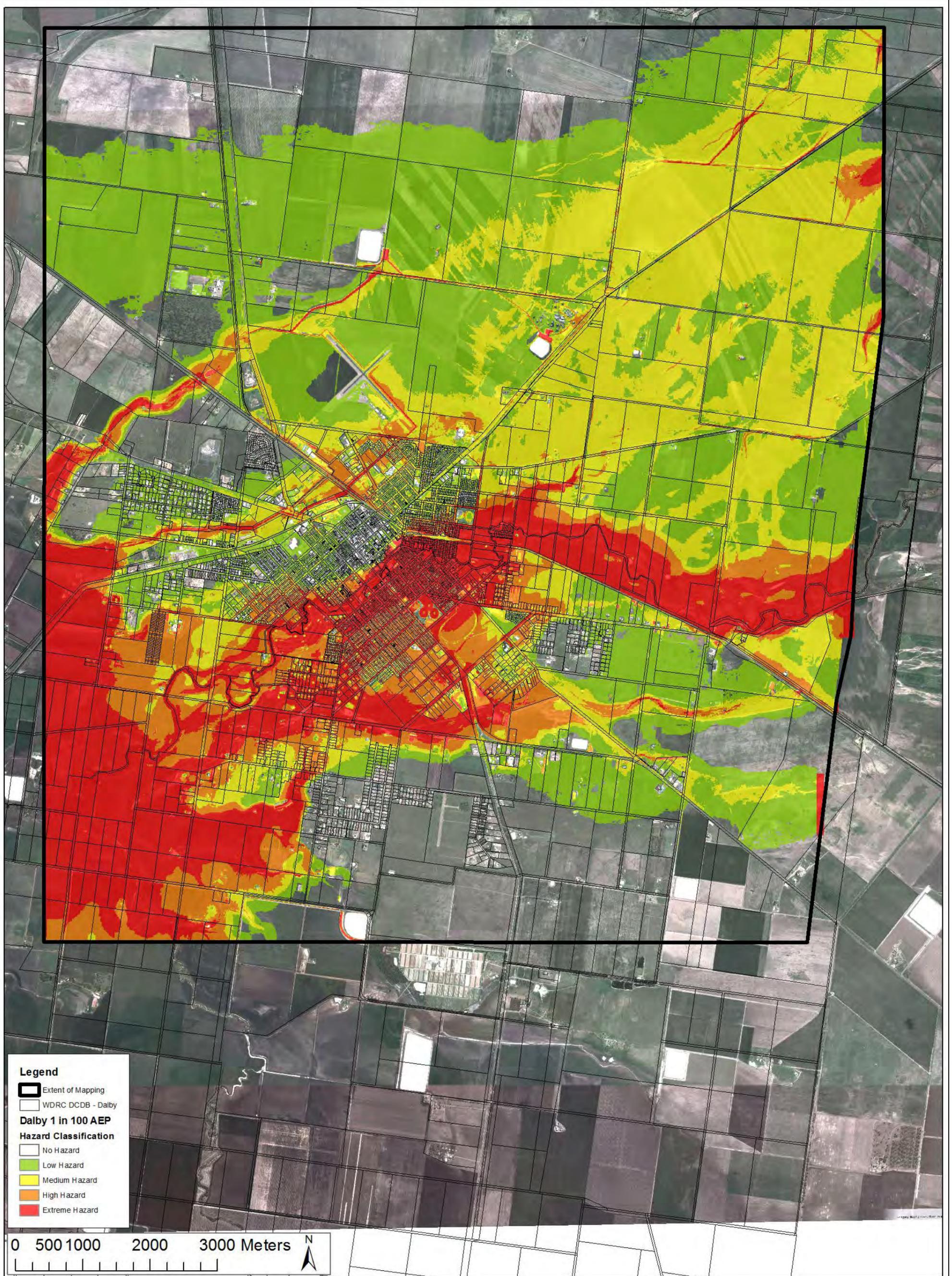


Figure 3 Updated Dalby 1 in 100 AEP Hazard

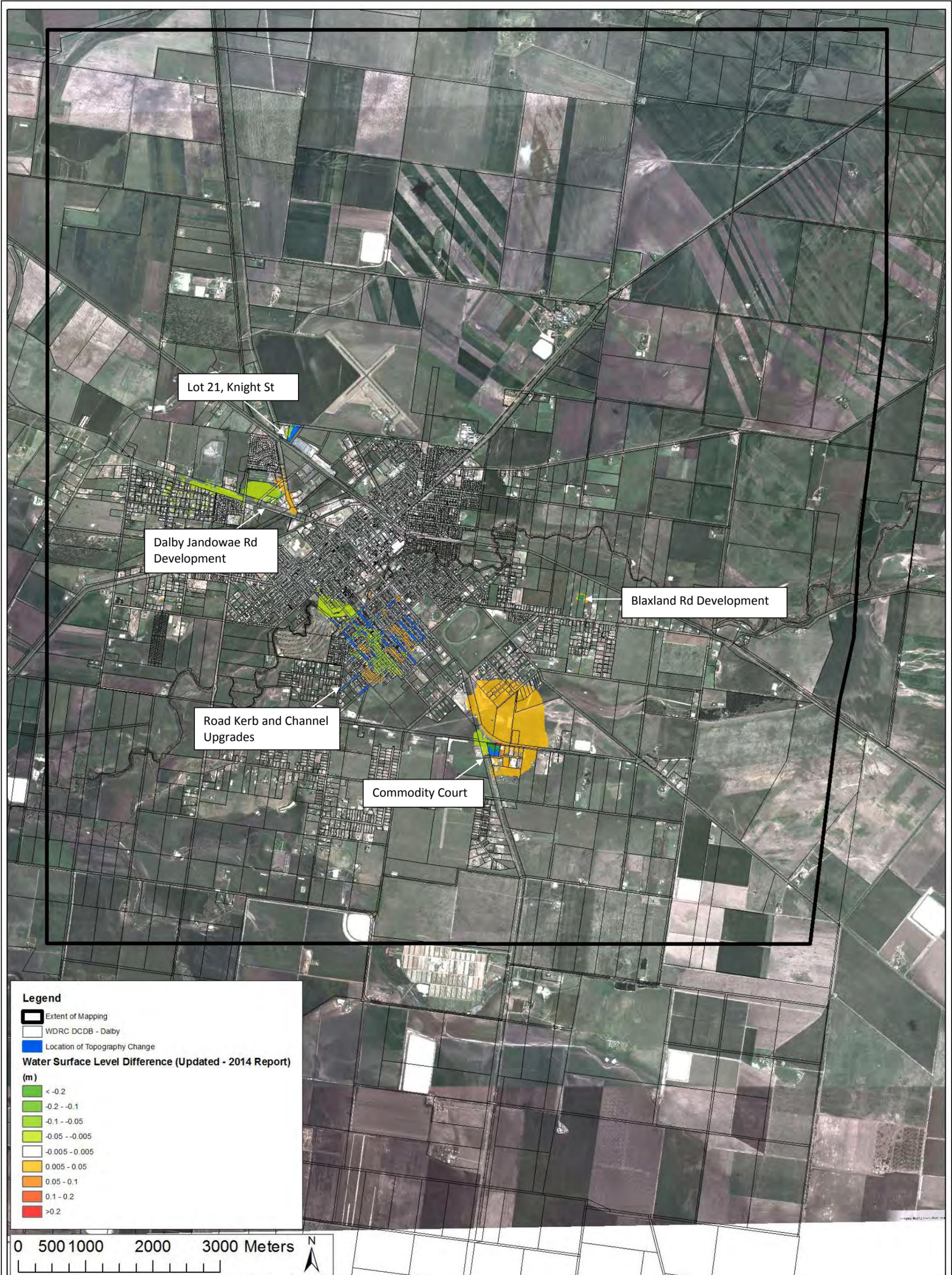


Figure 4 Water Surface Level Difference between Updated and 2014 Report

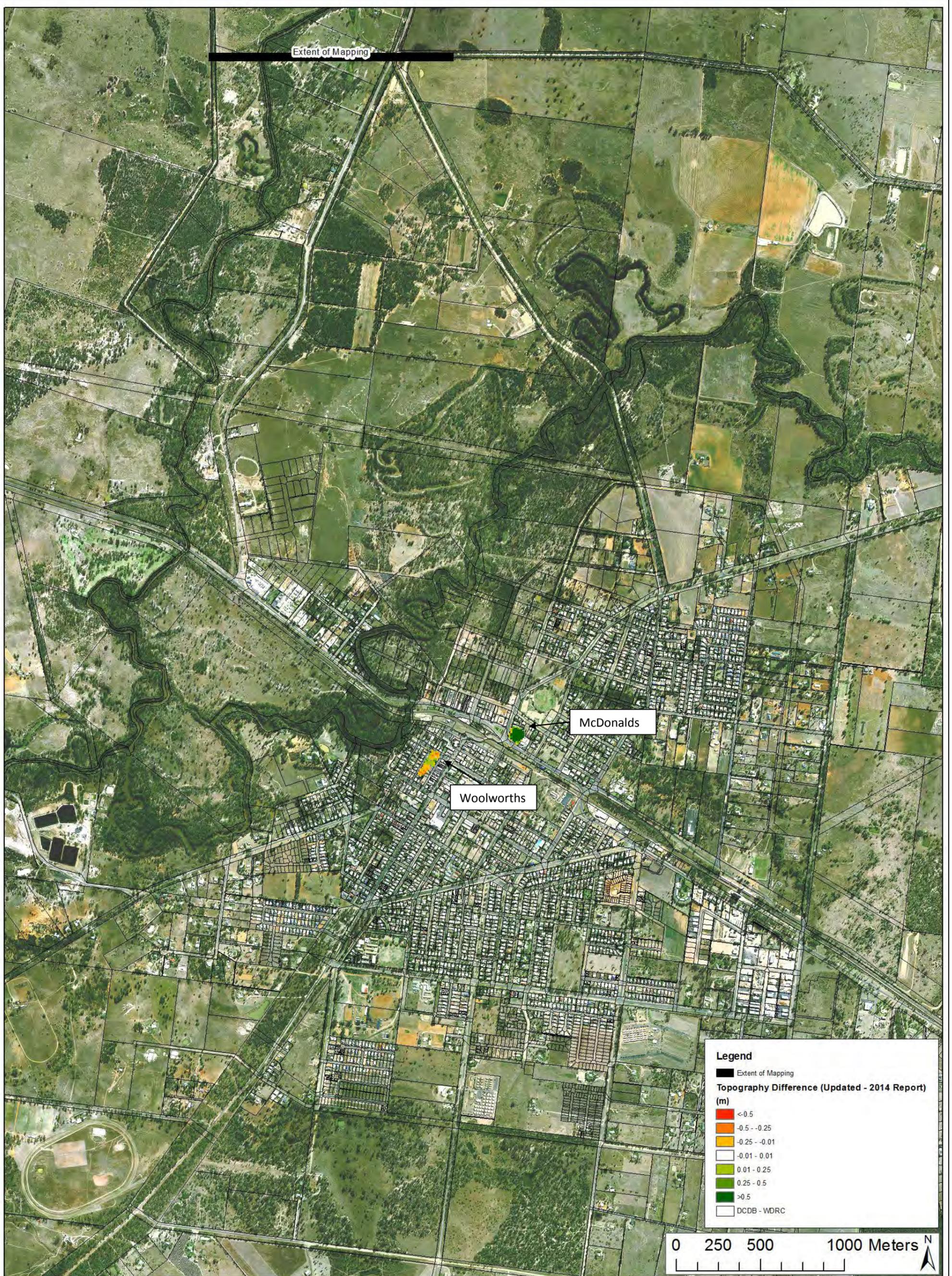


Figure 5 Topography Difference between Updated and 2014 Report

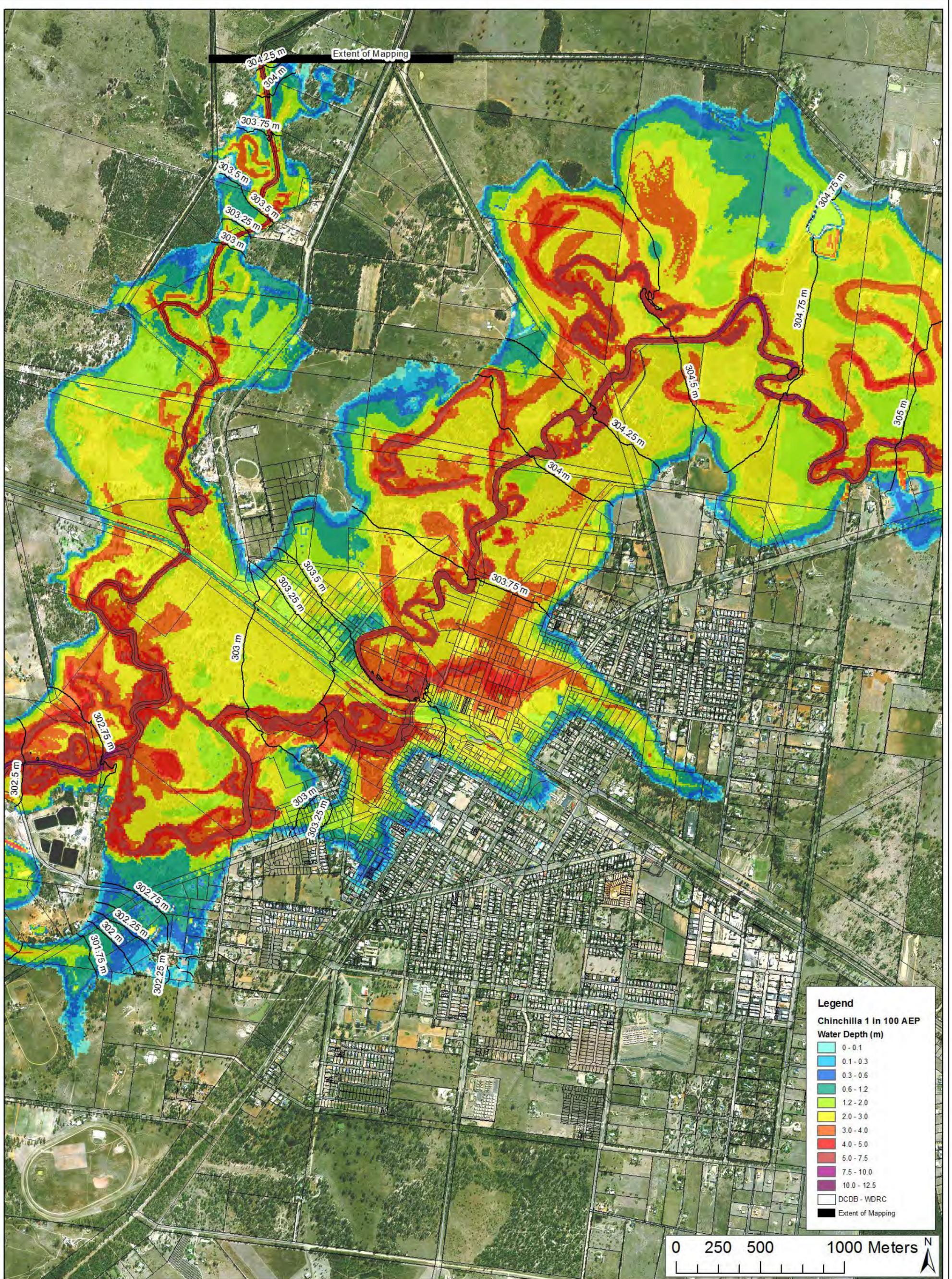


Figure 6 Updated Chinchilla 1 in 100 AEP Depth

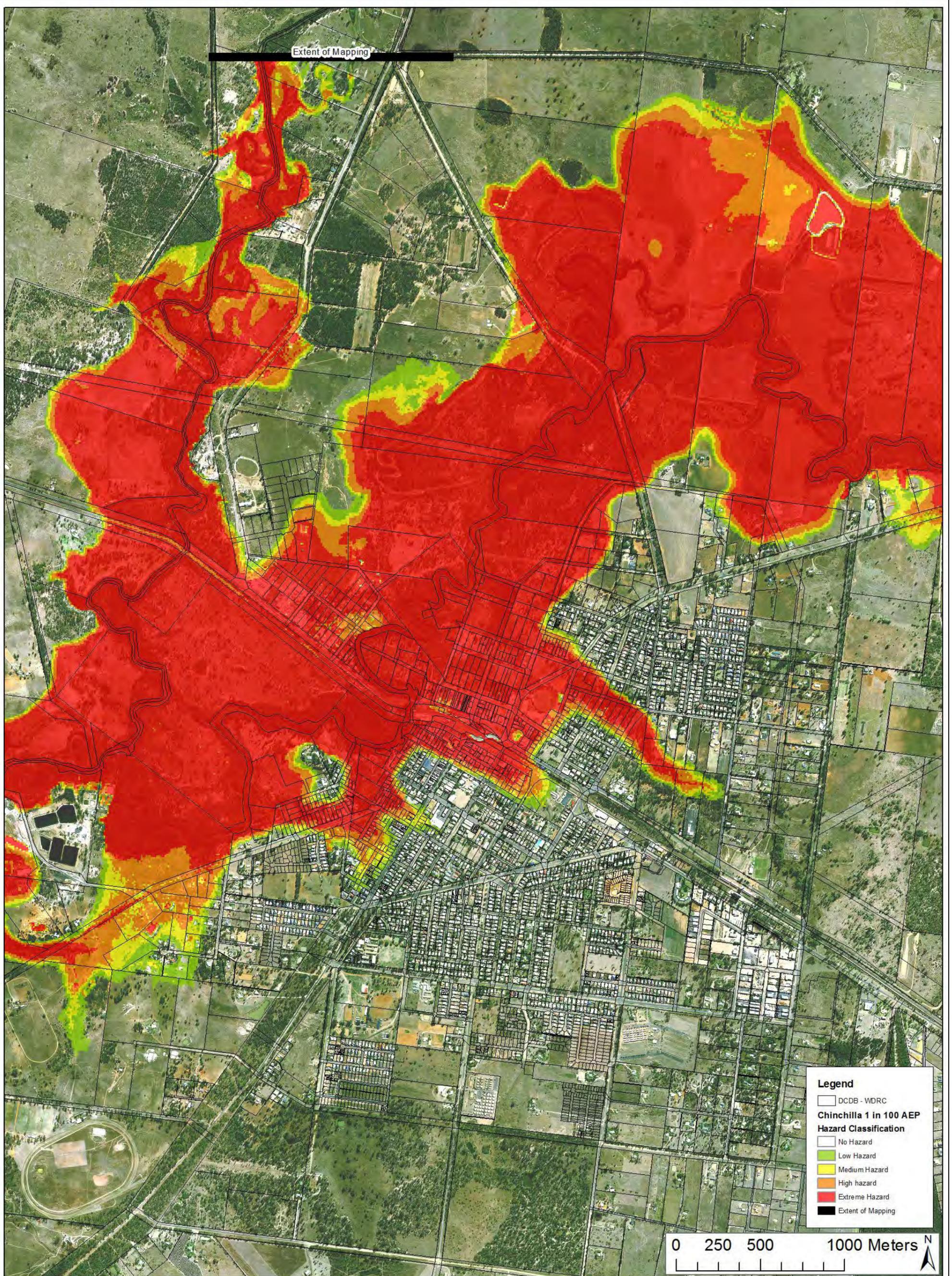


Figure 7 Updated Chinchilla 1 in 100 AEP Hazard

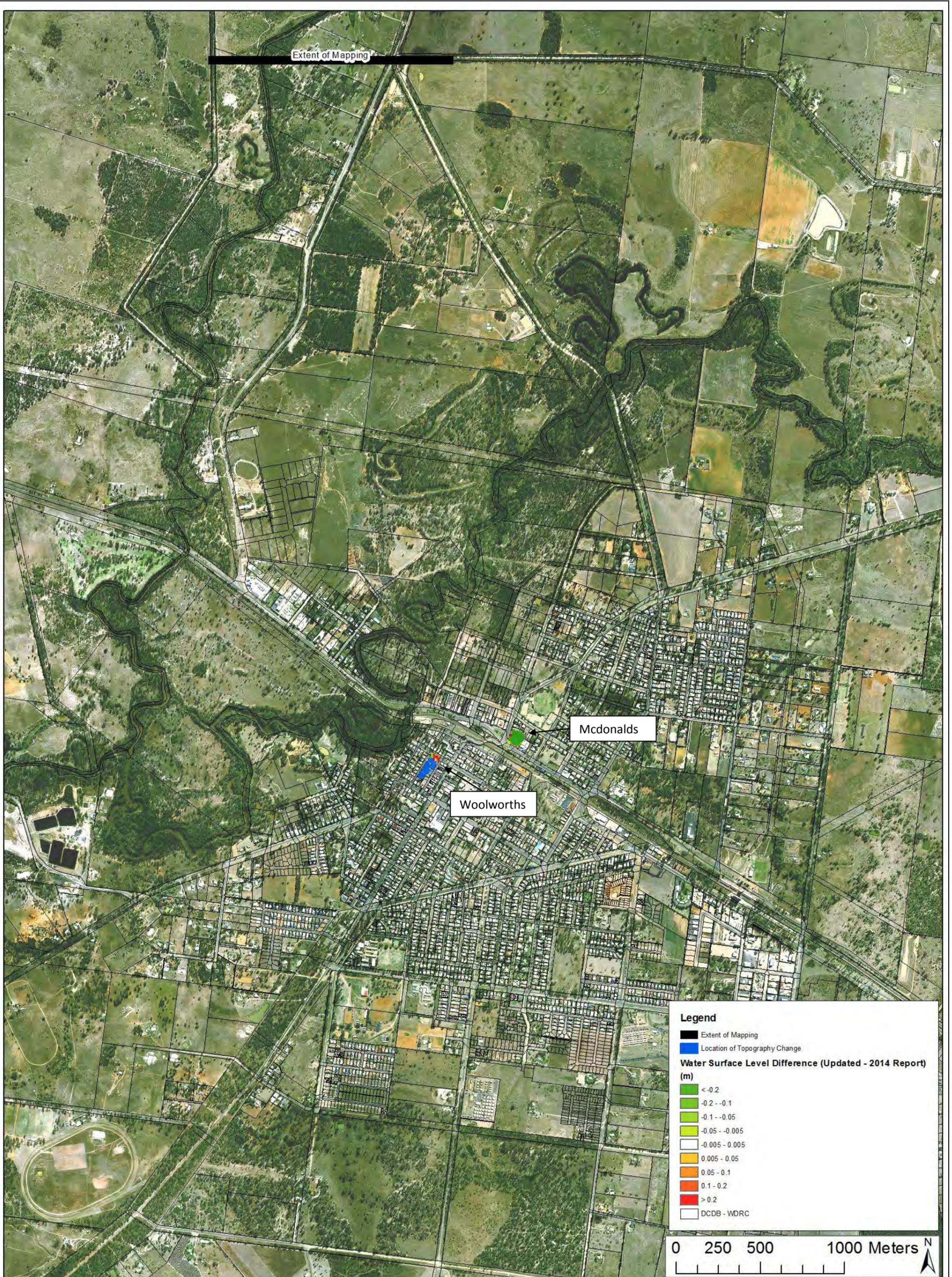


Figure 8 Water Surface Level Difference between Updated and 2014 Report

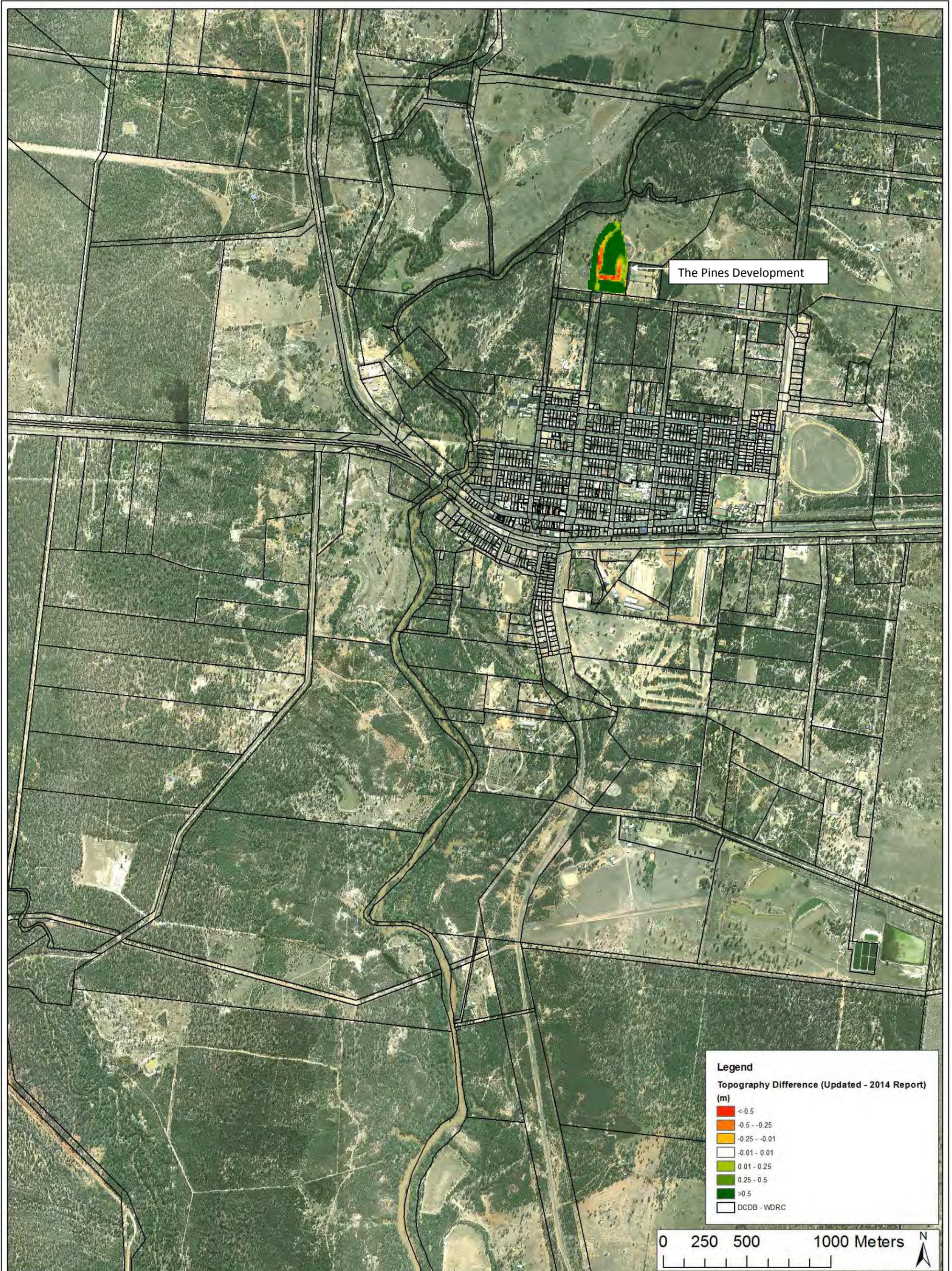


Figure 9 Topography Difference between Updated and 2014 Report

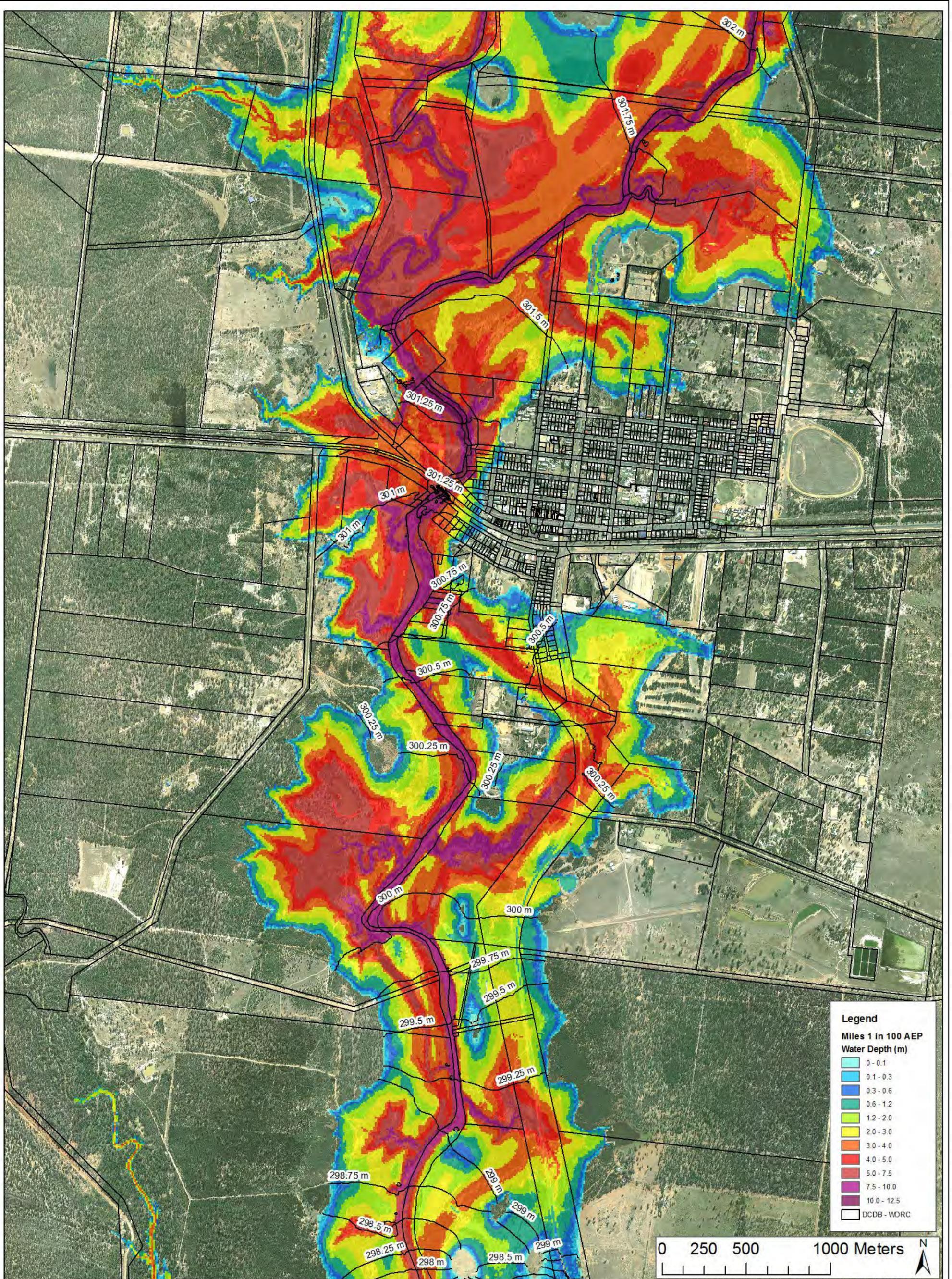


Figure 10

Updated Miles 1 in 100 AEP Depth

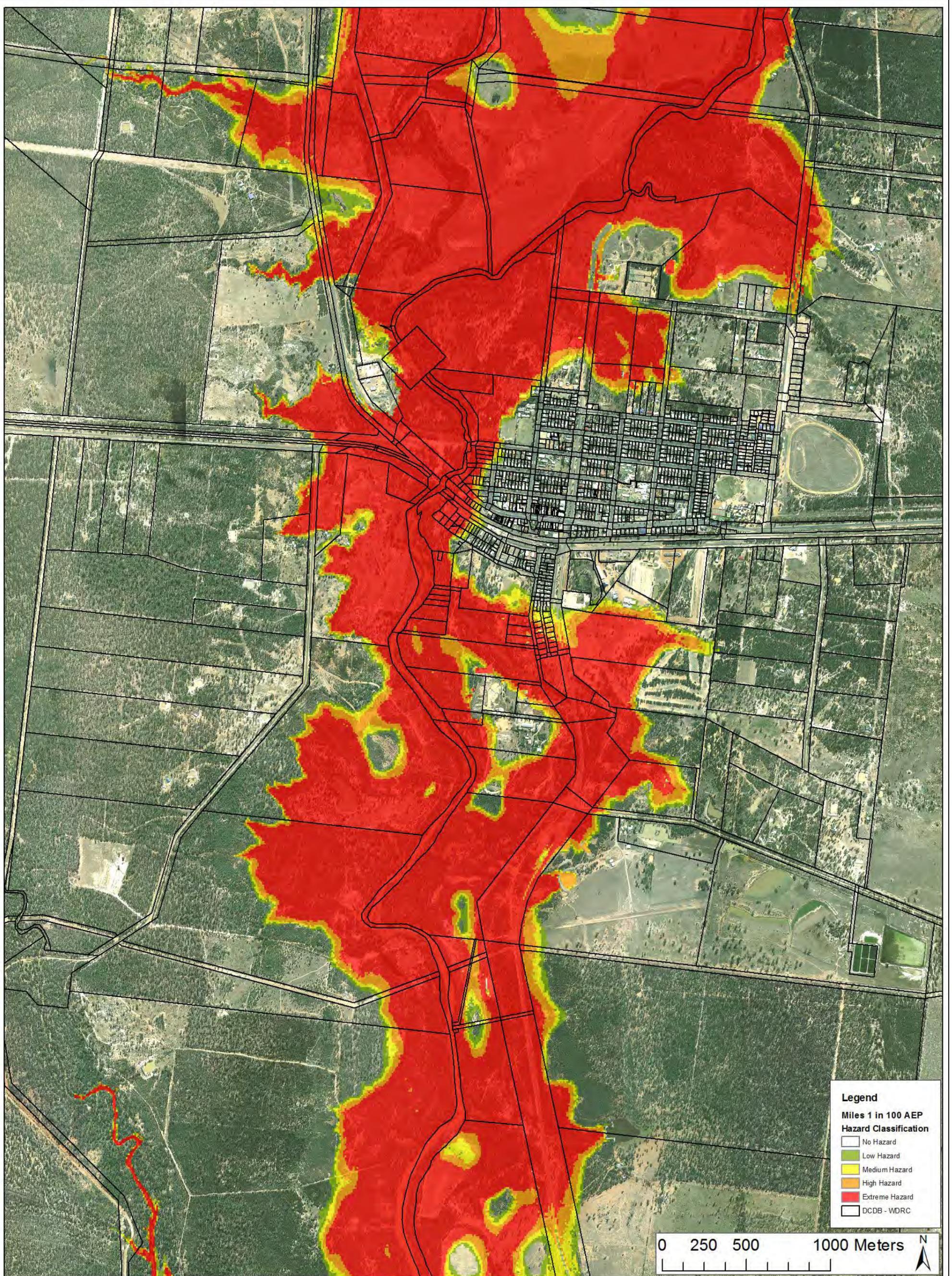


Figure 11 Updated Miles 1 in 100 AEP Hazard

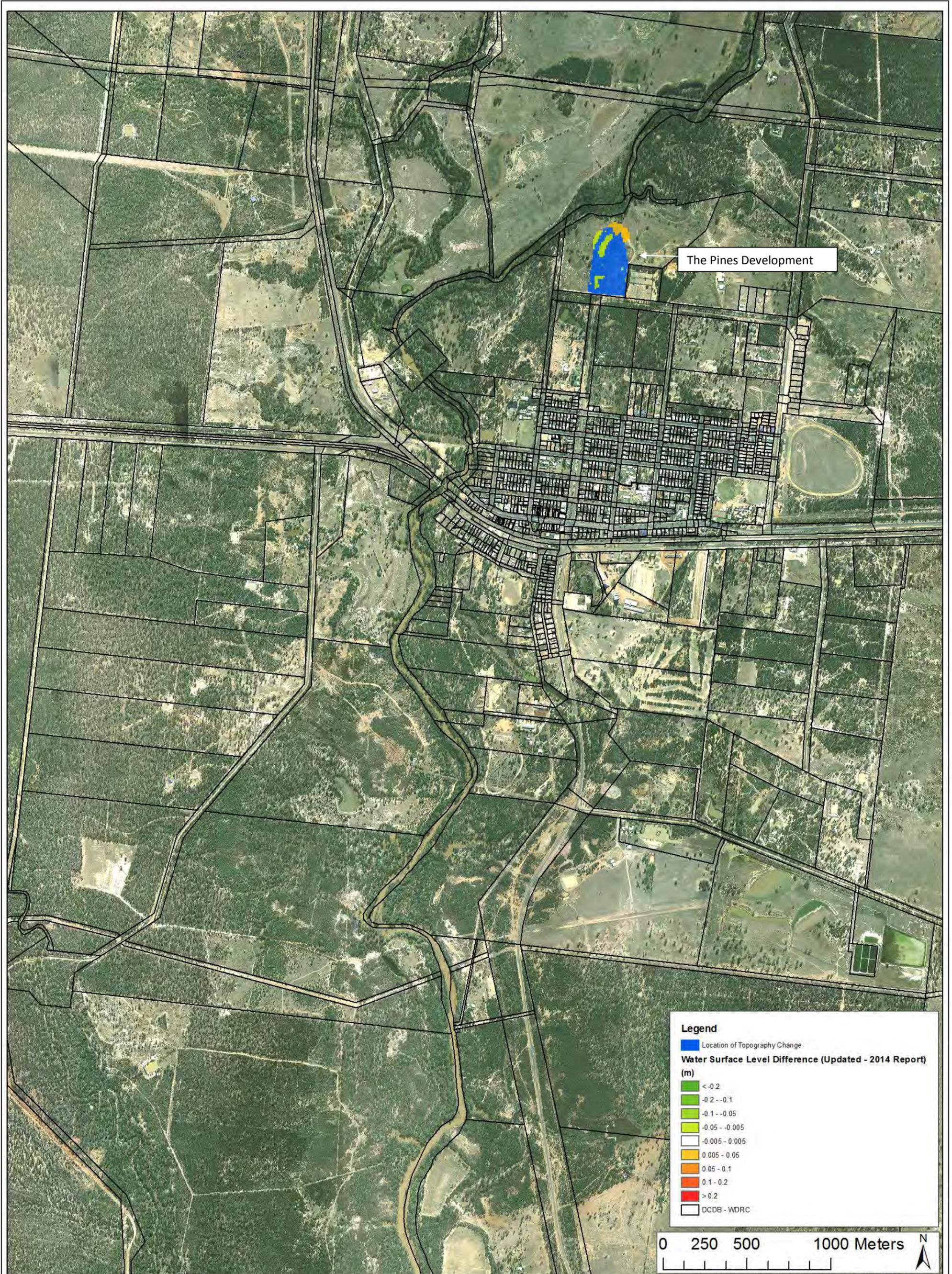


Figure 12 Water Surface Level Difference between Updated and 2014 Report